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UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549 FORM 10-Q QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934 For the quarterly period ended June 30, 2024 OR TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934 For the transition period from _____ to _____ Commission File Number 001-37635 AXSOME THERAPEUTICS, INC. (Exact name of registrant as specified in its charter) Delaware 45-4241907 (State or other jurisdiction of incorporation or organization) (I.R.S. Employer Identification No.) One World Trade Center 22nd Floor New York, New York 10007 (Address of principal executive offices) (Zip Code) A Registrant's telephone number, including area code: (212) 332-3241 Indicate by check mark whether the registrant: (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes ☒ No ☐ Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). Yes ☒ No ☐ Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company, or an emerging growth company. See definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act. Large accelerated filer ☐ Accelerated filer ☐ Non-accelerated filer ☒ Smaller reporting company ☐ Emerging growth company ☐ If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act. ☐ Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes ☐ No ☒ Securities registered pursuant to Section 12(b) of the Act: Title of each class: A Trading Symbol(s) A Name of each exchange on which registered: Common Stock, Par Value \$0.0001 Per Share AXSM A The Nasdaq Global Market A There were 48,000,205 shares of the registrant's common stock, \$0.0001 par value, outstanding as of July 29, 2024. A Table of Contents AXSOME THERAPEUTICS, INC. QUARTERLY REPORT ON FORM 10-Q FOR THE QUARTER ENDED JUNE 30, 2024 TABLE OF CONTENTS A A Page CAUTIONARY NOTE REGARDING FORWARD LOOKING STATEMENTS A 3 A PART I FINANCIAL INFORMATION A 4 A ITEM 1 Financial Statements A 4 ITEM 2 Management's Discussion and Analysis of Financial Condition and Results of Operations A 35 ITEM 3 Quantitative and Qualitative Disclosure About Market Risk A 48 ITEM 4 Controls and Procedures A 48 A PART II OTHER INFORMATION A 4 A ITEM 1 Legal Proceedings A 49 ITEM 1A Risk Factors A 50 ITEM 5 Other Information A 108 ITEM 6 Exhibits A 110 A Signatures A 111 A Table of Contents CAUTIONARY NOTE REGARDING FORWARD-LOOKING STATEMENTS Certain matters discussed in this report, including matters discussed under the caption "Management's Discussion and Analysis of Financial Condition and Results of Operations," may constitute forward-looking statements for purposes of the Securities Act of 1933, as amended, or the Securities Act, and the Securities Exchange Act of 1934, as amended, or the Exchange Act, and involve known and unknown risks, uncertainties and other factors that may cause our actual results, performance or achievements to be materially different from the future results, performance or achievements expressed or implied by such forward-looking statements. The words "anticipate," "believe," "estimate," "may," "expect" and similar expressions are generally intended to identify forward-looking statements. Our actual results may differ materially from the results anticipated in these forward-looking statements due to a variety of factors, including, without limitation, those discussed under the captions "Risk Factors," "Management's Discussion and Analysis of Financial Condition and Results of Operations" and elsewhere in this report, as well as other factors which may be identified from time to time in our other filings with the U.S. Securities and Exchange Commission, or the SEC, or in the documents where such forward-looking statements appear. All written or oral forward-looking statements attributable to us are expressly qualified in their entirety by these cautionary statements. Such forward-looking statements include, but are not limited to, statements about: ☒ our expectations for increases or decreases in expenses; ☒ our expectations for the clinical and preclinical development, manufacturing and regulatory approval of our product candidates, and commercialization of our pharmaceutical products or any other products that we may acquire or in-license; ☒ our estimates of the sufficiency of our existing capital resources combined with future anticipated cash flows to finance our operating requirements; ☒ our expectations for incurring capital expenditures to expand our research and development and manufacturing capabilities; ☒ unforeseen circumstances or other disruptions to normal business operations arising from or related to geopolitical conflicts or pandemics; ☒ our future revenue projections, sales forecasts, and potential peak market data; ☒ our expectations for generating revenue or becoming profitable on a sustained basis; ☒ our expectations or ability to enter into marketing and other partnership agreements; ☒ our expectations or ability to enter into product acquisitions and in-licensing transactions; ☒ our expectations or ability to build our own commercial infrastructure to manufacture, market and sell our products; ☒ our expected losses; ☒ our ability to obtain and maintain intellectual property protection for our products; ☒ the acceptance of our products by doctors, patients, or payors; ☒ our stock price and its volatility; ☒ our ability to attract and retain key personnel; ☒ the performance of third-party manufacturers; ☒ our expectations for future capital requirements; and ☒ our ability to successfully implement our strategy. The forward-looking statements contained in this report reflect our views and assumptions only as of the date that this report is signed. Except as required by law, we assume no responsibility for updating any forward-looking statements. We qualify all of our forward-looking statements by these cautionary statements. In addition, with respect to all of our forward-looking statements, we claim the protection of the safe harbor for forward-looking statements contained in the Private Securities Litigation Reform Act of 1995. 3 Table of Contents PART I. FINANCIAL INFORMATION ITEM 1. FINANCIAL STATEMENTS Axsome Therapeutics, Inc. Consolidated Balance Sheets (In thousands, except share and per share amounts) A June 30, 2024 A December 31, 2023 A A Assets A A A A Current assets: A A A Cash and cash equivalents A \$ 315,657 A Total current assets A \$ 386,193 A Accounts receivable, net A \$ 120,342 A Inventories, net A \$ 94,820 A Prepaid and other current assets A \$ 11,808 A Total current assets A \$ 463,027 A Equipment, net A \$ 504,263 A Right-of-use asset - operating lease A \$ 6,071 A Goodwill A \$ 6,772 A Intangible asset A \$ 12,042 A Total assets A \$ 1,086,120 A Liabilities and stockholders' equity A A A Current liabilities: A A A Accounts payable A \$ 61,340 A Accrued expenses and other current liabilities A \$ 116,771 A Operating lease liability, current portion A \$ 1,419 A Contingent consideration, current A \$ 7,040 A Total current liabilities A \$ 186,570 A Long-term debt A \$ 138,854 A Contingent consideration, non-current A \$ 69,620 A Loan payable, long-term A \$ 179,330 A Operating lease liability, long-term A \$ 6,829 A Finance lease liability, long-term A \$ 7,035 A Total liabilities A \$ 445,374 A Stockholders' equity: A A A Preferred stock, \$0.0001A par value per share A \$ 150,000,000A shares authorized, 4,060,578A and 47,351,363A shares issued and outstanding at June 30, 2024 and December 31, 2023, respectively A \$ 5 A Additional paid-in capital A \$ 1,086,120 A Accumulated deficit A \$ (983,273) A Total stockholders' equity A \$ 102,852 A Total liabilities and stockholders' equity A \$ 548,226 A The accompanying notes are an integral part of the consolidated financial statements. 4 Table of Contents Axsome Therapeutics, Inc. Consolidated Statements of Operations (Unaudited) (In thousands, except share and per share amounts) A Three months ended June 30, A Six months ended June 30, A A 2024 A 2023 A Revenues: A A A Product sales, net A \$ 86,520 A License revenue A \$ 74,586 A Royalty revenue A \$ 646 A Total revenues A \$ 161,752 A Operating expenses: A A A Research and development A \$ 49,853 A Selling, general and administrative A \$ 103,554 A Amortization and depreciation A \$ 8,055 A Loss in fair value of contingent consideration A \$ 2,160 A Loss on disposal of intangible assets A \$ 1,590 A Total operating expenses A \$ 165,212 A Net loss before income taxes A \$ (79,345) A Income tax benefit (expense) A \$ (1,963) A Net loss A \$ (79,345) A Basic and diluted net loss per common share A \$ (1.67) A Weighted average common shares outstanding, basic and diluted A 47,573,229 A 43,669,820 A The accompanying notes are an integral part of the consolidated financial statements. 5 Table of Contents Axsome Therapeutics, Inc. Consolidated Statements of Stockholders' Equity (Unaudited) (In thousands, except share amounts) A Common stock A Additional paid-in A Accumulated A Total stockholders' A A Shares A Amount A capital A deficit A equity A Balance at December 31, 2022 A 43,498,617 A 4 A 705,885 A (596,333) A Issuance of common stock upon exercise of options A 28,876 A Issuance of warrants upon debt financing A 387 A Issuance of common stock upon vesting of RSUs A 20,973 A Issuance of common stock upon exercise of options A 2,501 A Issuance of common stock upon vesting of RSUs A 32,918 A Issuance of common stock upon exercise of options A 169,998 A Issuance of common stock upon exercising of options A 3,000,000 A Issuance of common stock upon vesting of RSUs A 8,330 A Issuance of common stock upon exercising of options A 624 A Shares tendered for withholding taxes A 624 A Net loss A (333) A Net loss A (333) A Balance at June 30, 2023 A 47,351,363 A 5 A 1,026,543 A (835,571) A 190,977 A Stock-based compensation A 2,501 A Issuance of common stock upon vesting of RSUs A 20,533 A Issuance of common stock upon exercise of options A 80,294 A Issuance of common stock upon vesting of RSUs A 32,918 A Issuance of common stock upon exercise of options A 169,998 A Issuance of common stock upon exercising of options A 3,000,000 A Issuance of common stock upon vesting of RSUs A 8,330 A Issuance of common stock upon exercising of options A 624 A Shares tendered for withholding taxes A 624 A Net loss A (333) A Net loss A (333) A Balance at June 30, 2024 A 47,801,578 A 5 A 1,086,120 A (983,273) A 102,852 A The accompanying notes are an integral part of the consolidated financial statements. 6 Table of Contents Axsome Therapeutics, Inc. Consolidated Statements of Cash Flows (Unaudited) (In thousands) A Six months ended June 30, A 2024 A 2023 A Cash flows from operating activities: A A A Net loss A \$ (147,702) A Adjustments to reconcile net loss to net cash used in operating activities: A A A Stock-based compensation expense A \$ 41,572 A Amortization of intangible asset A \$ 3,161 A Depreciation A \$ 272 A Loss in fair value of contingent consideration A \$ 2,160

with the SEC on February 23, 2024. In the opinion of management, the unaudited interim consolidated financial statements reflect all adjustments, which are normal recurring adjustments, necessary for the fair presentation of the financial information for the interim periods. The results of operations for the three and six months ended June 30, 2024 are not necessarily indicative of the operating results for the full fiscal year or any future period. Liquidity and Capital Resources The Company has incurred operating losses since its inception and expects to continue to incur operating losses and may never become profitable. As of June 30, 2024, the Company had an accumulated deficit of \$983.3 million. The Company's primary sources of cash have been proceeds from the sales of Sunosi and Auvelity, the issuance and sale of its common stock in public offerings, and the issuance of debt. The Company's ability to achieve profitability depends on a number of factors, including its ability to obtain regulatory approval for its product candidates, successfully complete any post-approval regulatory obligations and successfully commercialize its product candidates alone or in partnership with third parties. The Company may continue to incur substantial operating losses even as it continues to generate revenues from its products. 8 Table of Contents The Company believes its existing cash will be sufficient to fund its anticipated operating cash requirements for at least twelve months following the date of this filing. During that time, the Company expects that its expenses will increase primarily due to the commercialization of Sunosi and Auvelity while continuing to further develop the Company's pipeline assets. The Company may use a combination of public and private equity offerings, debt financings, other third-party funding, strategic alliances, licensing arrangements or marketing and distribution arrangements if market conditions are favorable or as a result of other strategic considerations to finance its future cash needs. The Company's common stock is listed on The Nasdaq Global Market and trades under the symbol "AXSM." Note 2. Summary of Significant Accounting Policies Significant Risks and Uncertainties The Company's operations are subject to a number of factors that can affect its operating results and financial condition. Such factors include, but are not limited to: the results of clinical testing and trial activities of the Company's product candidates; the Company's ability to obtain regulatory approval to market its products; competition from products manufactured and sold or being developed by other companies; the price of, and demand for, the Company's products; the Company's ability to negotiate favorable licensing or other manufacturing and marketing agreements for its products; and the Company's ability to raise additional capital. If the Company's commercialization of its products is not financially successful, it will be unable to generate sufficient recurring product revenue to achieve and maintain profitability. The Company currently has two commercially approved products, Auvelity and Sunosi, and there can be no assurance that the Company's research and development efforts will result in successfully commercialized products in addition to Auvelity and Sunosi. Developing and commercializing a product requires significant time and capital and is subject to regulatory review and approval as well as competition from other biotechnology and pharmaceutical companies. The Company operates in an environment of rapid change and is dependent upon the continued services of its employees and consultants and obtaining and protecting intellectual property. Use of Estimates Management considers many factors in developing the estimates and assumptions that are used in the preparation of these financial statements. Management must apply significant judgment in this process. In addition, other factors may affect estimates, including expected business and operational changes, sensitivity and volatility associated with the assumptions used in developing estimates, and whether historical trends are expected to be representative of future trends. The estimation process often may yield a range of potentially reasonable estimates of ultimate future outcomes, and management must select an amount that falls within that range of reasonable estimates. This process may result in actual results differing materially from those estimated amounts used in the preparation of the financial statements if these results differ from historical experience, or other assumptions do not turn out to be substantially accurate, even if such assumptions are reasonable when made. In preparing these financial statements, management used significant estimates in the following areas, among others: stock-based compensation expense; determination of fair value of warrants; accounting for research and development costs; accounting for acquisitions; impairments of goodwill and the intangible asset; determination of fair value of contingent consideration; chargebacks, cash discounts, sales rebates, returns and other adjustments; and the recoverability of the Company's net deferred tax assets and related valuation allowance. 9 Table of Contents Revenue Recognition In accordance with Accounting Standards Codification (ASC) Topic 606, Revenue from Contracts with Customers (ASC 606), the Company recognizes revenue when the customer obtains control of a promised good or service, in an amount that reflects the consideration that the Company expects to receive in exchange for the good or service. Transfer of control is based on contractual performance obligations, which occurs upon transfer of the title along with the physical transfer of the Company's goods to the customer, as that is when the customer has obtained control of significantly all of the economic benefits and the Company obtains a right of payment. To determine revenue recognition for arrangements that the Company determines are within the scope of ASC 606, the Company performs the following five steps: (i) identify the contract(s) with a customer, (ii) identify the performance obligations in the contract, (iii) determine the transaction price, (iv) allocate the transaction price to the performance obligations in the contract, and (v) recognize revenue when (or as) the entity satisfies a performance obligation. The Company only applies the five-step model to arrangements that meet the definition of a contract under ASC 606, including when it is probable that the Company will collect the consideration it is entitled to in exchange for the goods or services it transfers to the customer. At contract inception, once the contract is determined to be within the scope of ASC 606, the Company assesses the goods or services promised within each contract and determines those that are performance obligations and assesses whether each promised good or service is distinct. The Company then recognizes as revenue the amount of the transaction price that is allocated to the respective performance obligation when (or as) the performance obligation is satisfied. For a complete discussion of accounting for product sales, see Product Sales, net (below) and Note 13. Revenues. License Agreements The Company generates revenue from license or similar agreements with pharmaceutical companies for the development and commercialization of certain products. Such agreements may include the transfer of intellectual property rights in the form of licenses. Payments made by the customer may include non-refundable upfront fees, payments based upon the achievement of defined milestones and royalties on sales of products. If a license to the Company's intellectual property is determined to be distinct from the other performance obligations identified in the arrangement, the Company recognizes the transaction price allocated to the license as revenue upon transfer of control of the license. All other promised goods or services in the agreement are evaluated to determine if they are distinct. If they are not distinct, they are combined with other promised goods or services to create a bundle of promised goods or services that is distinct. Optional future services where any additional consideration paid to the Company reflects their standalone selling prices do not provide the customer with a material right, and, therefore, are not considered performance obligations. If optional future services are priced in a manner which provides the customer with a significant or incremental discount, they are material rights, and are accounted for as separate performance obligations. Contingent milestones at contract inception are estimated to the extent that it is probable that a significant revenue reversal would not occur and are included in the transaction price using the most likely amount method. Milestone payments that are not within the Company's control, such as regulatory approvals, are not considered probable of being achieved until those approvals are received, and, therefore, the variable consideration is constrained. The transaction price is then allocated to each performance obligation on a relative stand-alone selling price basis, for which the Company recognizes revenue as or when the performance obligations under the contract are satisfied. At the end of each reporting period, the Company re-evaluates the probability of achieving development or sales-based milestone payments that a significant revenue reversal would not occur and, if necessary, adjusts the estimate of the overall transaction price. Any such adjustments are recorded on a cumulative catch-up basis, which would affect license and other revenue, as well as earnings, in the period of adjustment. For arrangements that include sales-based royalties, including sales-based milestone payments, and a license of intellectual property that is deemed to be the predominant item to which the royalties relate, revenue is recognized at the later of (i) when the related sales occur, or (ii) when the performance obligation to which some or all of the royalties have been allocated has been satisfied (or partially satisfied). 10 Table of Contents Product Sales, net Revenues from product sales are recorded net of reserves for variable consideration. These reserves reflect the Company's best estimate of the amount of consideration to which the Company is entitled based on the terms of the contracts. The Company sells Sunosi and Auvelity in the United States to wholesale distributors with whom the Company has entered into formal agreements (collectively, the "Distributors"). These Distributors subsequently resell the Company's products to retail pharmacies. The Company sells Sunosi, on a product supply basis, to Pharmanovia, and Sunosi is subsequently sold within the licensed territories. The Company does not sell products under consignment arrangements, and the collection of proceeds from product sales is not contingent upon customers' sale of the goods to third parties. See Note 13. Revenues for a further breakout of product sales, net, for the three and six months ended June 30, 2024 and 2023. Reserves for Variable Consideration The Company's estimates of variable consideration and determination of whether to include estimated amounts in the transaction price are based largely on an assessment of its anticipated performance and all information (historical, current and forecasted) that is reasonably available. These reserves reflect the Company's best estimate of the amount of consideration to which the Company is entitled based on the terms of the contracts and are classified as reductions to accounts receivables, net, if payable to a customer or accrued expenses and other current liabilities if payable to a third-party. The amount of variable consideration that is included in the transaction price may be constrained and is included in the net sales price only to the extent that is considered probable that a significant reversal in the amount of the cumulative revenue recognized will not occur in a future period. Actual amounts of consideration ultimately received may differ from the estimates. If actual results in the future vary from our estimates, the Company will adjust these estimates, which would affect net product revenue and earnings in the period such variances become known. The provision for rebates, discounts, and other incentives is based on expected patient usage, as well as inventory levels in the distribution channel to determine the contractual obligation to the benefit providers. Additionally, sales are generally made with a limited right of return under certain conditions. Revenues are recorded net of provisions for rebates, discounts, and other incentives and returns, which are established at the time of sale. The Company uses customer segment utilization mix data, changes to product price, government pricing calculations and prior payment history in order to estimate the variable consideration. Amounts accrued for rebates, discounts, and other incentives are adjusted when trends indicate that adjustment is appropriate and to reflect actual experience. Trade Discounts and Allowances - The Company generally provides discounts which include incentive fees that are explicitly stated in the Company's contracts and are recorded as a reduction of revenue in the period the related product revenue is recognized. In addition, the Company compensates (through trade discounts and allowances) its distributors for distribution services and data. These payments have been recorded as a reduction to product sales as well as a reduction to accounts receivables, net on the consolidated balance sheets. Product Returns - The Company generally offers a limited right of return for product that has been purchased from the Company based on the product's expiration date. The Company estimates the amount of its product sales that may be returned and records this estimate as a reduction of revenue in the period the related product sale is recognized, as well as a component of accrued expense and other current liabilities. The Company currently estimates product return liabilities using available industry data, historical product sales information, and actual returns experience. Chargebacks and Discounts - Chargebacks for fees and discounts to providers represent the estimated obligations resulting from contractual commitments to sell products at prices lower than the list prices charged to distributors. Distributors charge the Company for the difference between what they pay for the product and the ultimate selling price. These reserves are established in the same period that the related product sales are recognized, resulting in a reduction to product sales and accounts receivables, net. 11 Table of Contents Rebates - Rebates apply to: Medicaid, managed care, and supplemental rebates to all applicable states as defined by the statutory government pricing calculation requirements under the Medicaid Drug Rebate Program. Tricare rebates to the TRICARE third-party administrator are based on the statutory calculation defined in the agreement with the Defense Health Agency. Part D and Commercial Managed Care rebates are paid based on the contracts with Pharmacy Benefit Managers (PBM's) and Managed Care Organizations. Rebates are paid to these entities upon receipt of an invoice from the contracted entity which is based on the utilization of the product by the members of the contracted entity. Allowances for rebates also include amounts due under the Inflation Reduction Act of 2022 for Medicare Part D. The Company estimates these rebates and records such estimates in the same period the related product sales are recognized, resulting in a reduction to product sales as well as a component of accrued expenses and other current liabilities. Coverage Gap - The Medicare Part D coverage gap is a period of consumer payment for prescription medication costs which lies between the initial coverage limit and the catastrophic-coverage threshold, when the patient is a member of a Medicare Part D prescription-drug program administered by the Centers for Medicare & Medicaid Services. The Company estimates the percentage of goods sold to patients in the Coverage Gap and adjusts the transaction price for such discount at the time of sale resulting in a reduction to product sales as well as a component of accrued expenses and other current liabilities. Other Incentives - Other incentives which the Company offers include voluntary patient assistance programs, such as the co-pay assistance program, which are intended to provide financial assistance to qualified commercially-insured patients with prescription drug co-payments required by payers. The calculation of the accrual for co-pay assistance is based on an estimate of claims and the cost per claim that the Company expects to receive associated with product that has been recognized as revenue. The reserves are recorded in the same period the related revenue is recognized, resulting in a reduction of product sales as well as a component of accrued expenses and other current liabilities. The Company makes significant estimates and judgments that materially affect its recognition of net product revenue. Claims by third-party payors for rebates, chargebacks and discounts frequently are submitted to the Company significantly after the related sales, potentially resulting in adjustments in the period in which the new information becomes known. The Company will adjust its estimates based on new information, including information regarding actual rebates, chargebacks and discounts for its products, as it becomes available. Cost of Revenue The Company's cost of revenue consists of cost of product sales and a fee sharing expense related to the upfront license revenue received. Cost of product sales primarily include direct costs (inclusive of material, shipping, handling, and manufacturing costs), overhead and product royalties. Cost of product sales excludes depreciation and amortization. In the first quarter of 2023, the Company recorded a \$5.0 million fee sharing expense related to the upfront license revenue received. The Company assumed royalty and sales-based milestone commitments of Jazz to SK Biopharmaceuticals Co. Ltd. (SK) and Aerial Biopharma, LLC (Aerial). SK is the originator of Sunosi and retains rights in 12 Asian markets, including China, Korea and Japan. In 2014, Jazz acquired from Aerial worldwide rights to Sunosi excluding those Asian markets stated previously. The assumed commitments to SK and Aerial include single-digit tiered royalties based on the Company's sales of Sunosi, and the Company is committed to pay up to \$165 million based on revenue milestones and \$1 million based on development milestones. Additionally, the Company pays a royalty to Antecip Bioventures II LLC (Antecip), an entity owned by Axsome's Chief Executive Officer and Chairman of the Board of Directors (the "Board"), Herriot Tabuteau, M.D., equal to 3.0% of Auvelity net sales. Foreign Currency Translation Revenues and expenses denominated in foreign currency are translated into U.S. dollars at the exchange rate on the date they are incurred. Assets and liabilities of foreign operations are translated at period-end exchange rates. The effect of exchange rate fluctuations on translating foreign currency into U.S. dollars is included in the Statements of Operations and is not material to the Company's consolidated financial statements. 12 Table of Contents Segment Information Operating segments are defined as components of an enterprise for which separate discrete information is available for evaluation by the chief operating decision maker or decision-making group in deciding how to allocate resources and in assessing performance. The Company views its operations and manages its business as one operating segment and reporting unit, which is the business of developing and delivering novel therapies for the management of CNS disorders. Cash and Cash Equivalents The Company considers all highly liquid investments that have maturities of three months or less when acquired to be cash equivalents. The Company's cash and cash equivalents includes holdings in checking and overnight sweep accounts. The Company's cash equivalents, which are money market funds held in a sweep account, are measured at fair value on a recurring basis. As of June 30, 2024, the balance of cash and cash equivalents was \$315.7 million, which approximates fair value and was determined based upon Level 1 inputs. The sweep account is valued using quoted market prices with no valuation adjustments applied. Accordingly, these securities are categorized as Level 1 on the fair value hierarchy. Concentration of Risk Concentration of Credit Risk - Financial instruments that potentially subject the Company to a concentration of credit risk consist of cash and cash equivalents. The Company maintains its cash deposits at financial institutions, which cash deposits exceed insured limits. At June 30, 2024, the majority of the Company's cash was held by two financial institutions and amounts on deposit were in excess of government-provided insurance limits. The Company places its cash and cash equivalents in what it believes to be high credit quality banks and money market funds and has not recognized any losses from credit risks on such accounts since inception. See Accounts Receivables, net below for further information. Concentration of Risk, Other - The Company has a limited number of contract manufacturers for its products. At times, the Company may have only one manufacturer or supplier for its products. Business Combination The Company accounted for the Acquisition as a business combination using the acquisition method of accounting, which requires that all identifiable assets acquired, and liabilities assumed be recorded at their estimated fair values. The excess of the fair value of purchase consideration over the fair values of identifiable assets and liabilities is recorded as goodwill. When determining the fair values of assets acquired and liabilities assumed, management makes significant estimates and assumptions. Critical estimates in valuing the intangible asset include but are not limited to future expected cash flows from acquired patented technology. Management's estimates of fair

value are based upon assumptions believed to be reasonable, but are inherently uncertain and unpredictable and, as a result, actual results may differ from estimates. As a result of the Acquisition, the Company recorded goodwill and an intangible asset.13 Table of ContentsA GoodwillGoodwill is deemed to have an indefinite life and therefore not amortized. The Company tests the carrying amounts of goodwill for recoverability on an annual basis or more frequently if events or changes in circumstances indicate that the asset might be impaired. When reviewing goodwill for impairment, the Company first evaluates the qualitative factors to determine whether it is more likely than not that the fair value of a reporting unit is less than its carrying amount. If the qualitative factors determine it is necessary to complete a goodwill impairment test, the fair value of the relevant reporting unit is determined and compared to its carrying value. If the fair value is greater than the carrying value, then the carrying value is deemed to be recoverable, and no further action is required. If the fair value estimate is less than the carrying value, goodwill is considered impaired for the amount by which the carrying amount exceeds the reporting unit's fair value, and a charge is reported in impairment of goodwill in the Company's consolidated statements of operations. The Company completes its annual goodwill assessment as of December 31. As of June 30, 2024, the Company has determined that it has one reporting unit. The Company has not identified any events or changes in circumstances that indicate the existence of potential impairment of goodwill during the six months ended June 30, 2024. The balance of goodwill at June 30, 2024 and December 31, 2023 remains unchanged at \$12.0 million.Intangible AssetThe Company's intangible asset is amortized using the straight-line method over its estimated period of benefit of ten years. The Company evaluates recoverability of the intangible asset periodically by considering events or changes in circumstances that may warrant revised estimates of useful lives or that indicate the asset may be impaired. The Company has not identified any events or changes in circumstances that indicate the existence of potential impairment of the intangible asset during the six months ended June 30, 2024.Contingent ConsiderationConsideration paid in a business combination may include potential future payments that are contingent upon the acquired business achieving certain milestones in the future (a contingent consideration). The royalty payments due to Jazz are a high single-digit royalty on the Company's U.S. net sales of Sunosi in the current indication and a mid-single-digit royalty on the Company's U.S. net sales of Sunosi for future indications. Contingent consideration liabilities are measured at their estimated fair value as of the date of acquisition, with subsequent changes in fair value recorded in the consolidated statements of operations during such period a change is recognized. The Company estimates the fair value of the contingent consideration as of the acquisition date and reporting periods thereafter using the probability weighted income approach and makes significant assumptions, including estimated future sales of Sunosi in current and future indications, timing of regulatory and commercial milestone achievements, probability of technical and regulatory success rates, and discount rates. Contingent consideration liabilities expected to be settled within 12 months after the balance sheet date are presented in current liabilities, with the non-current portion recorded within total liabilities in the consolidated balance sheets.Fair Value MeasurementsFair value is defined as the exchange price that would be received for an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants at the measurement date. Assets and liabilities that are measured at fair value are reported using a three-level fair value hierarchy that prioritizes the inputs used to measure fair value. This hierarchy maximizes the use of observable inputs and minimizes the use of unobservable inputs. The three levels of inputs used to measure fair value are as follows:Level 1a Quoted prices in active markets for identical assets or liabilities that the Company has the ability to access at the measurement date.Level 2a Inputs other than quoted prices in active markets that are observable for the asset or liability, either directly or indirectly.14 Table of ContentsA Level 3a Unobservable inputs for which there is little or no market data, which require the reporting entity to develop its own assumptions.To the extent that valuation is based on models or inputs that are less observable or unobservable in the market, the determination of fair value requires more judgment. Accordingly, the degree of judgment exercised by the Company in determining fair value is greatest for instruments categorized in Level 3. An asset's or liability's level within the fair value hierarchy is based on the lowest level of any input that is significant to the fair value measurement.The Company's financial instruments are cash and cash equivalents, accounts receivable, accounts payable, accrued expenses and other liabilities, contingent warrant liability, current and long-term debt, and current and non-current contingent consideration. The Company's Level 1 financial instruments include cash and cash equivalents, accounts receivable, accounts payable, and accrued expenses and other liabilities. They are considered Level 1 as the carrying values reported in the accompanying consolidated financial statements approximate their respective fair values due to their short-term maturities. The carrying value of debt on the Company's balance sheet is estimated to approximate its fair value. The Company's Level 3 financial instruments include contingent warrant liability and current and non-current contingent consideration due to the significant unobservable inputs required in determining their respective fair values. The Company categorized the fair value of contingent consideration liabilities as Level 3 within the fair value hierarchy as the estimate is based on significant unobservable inputs requiring management judgment. The fair value of contingent consideration liabilities is estimated by using the probability weighted income approach using significant assumptions, including estimated future sales of Sunosi in current and future indications, timing of regulatory and commercial milestone achievements, probability of technical and regulatory success and discount rates. Contingent consideration liabilities are subject to remeasurement at each prospective balance sheet date, with any changes in the fair value recorded in the consolidated statements of operations. See Note 6. Fair Value of Financial Instruments for further detail. The Company estimated the fair value of the warrant liabilities using the Black-Scholes model based on key assumption and inputs. The Company utilizes a probability assessment to estimate the likelihood of vesting for the remaining Loan Agreement (as defined below) warrants and allocated the probability of occurrence percentage to the fair values calculated, and, therefore, is considered Level 3 within the fair value hierarchy. The Company accounts for warrants anticipated to be issued in the future under the Loan Agreement as liabilities and measures them at fair value using the Black-Scholes valuation model. The warrants are subject to remeasurement at each prospective balance sheet date, with any changes in the fair value recorded in the consolidated statements of operations. See Note 6. Fair Value of Financial Instruments for further detail.Accounts Receivable, netThe Company's accounts receivable, net, arise from product sales and represent amounts due from its customers. They are generally stated at the gross sales amount, less reserves resulting from trade discounts and allowances and chargebacks. Accounts receivables typically have a standard payment term of 60 days or less and do not bear interest.The Company monitors the financial performance and creditworthiness of its customers so that it can properly assess and respond to changes in the customers' credit profiles. During the first quarter of 2023, the Company began distributing products through wholesale customers. The Company estimates expected credit losses of its accounts receivable by assessing the risk of loss and available relevant information about collectability, including historical credit losses, existing contractual payment terms, actual payment patterns of its customers, individual customer circumstances, and reasonable and supportable forecast of economic conditions expected to exist throughout the contractual life of the receivable. The Company has not historically experienced significant credit losses. Based on its assessment, as of June 30, 2024, the Company has not recorded any allowances for doubtful accounts receivable. For further information about accounts receivable, see Note 3. Accounts Receivable, net.15 Table of ContentsA Debt Issuance CostsDebt issuance costs consist of costs incurred in obtaining long-term financing. These costs are classified on the consolidated balance sheet as a direct deduction from the carrying amount of the related debt liability. These expenses are deferred and amortized as part of interest expense in the consolidated statement of operations using the effective interest rate method over the term of the debt agreement.InventoryThe Company values its inventories at the lower of cost or estimated net realizable value. The remaining inventory associated with the Acquisition is stated at fair value due to purchase accounting. The Company performs an assessment of the recoverability of capitalized inventory during each reporting period, and it writes down any excess and obsolete inventories to their estimated net realizable value in the period in which the impairment is first identified. Such impairment charges, if they occur, are recorded within cost of revenue.The Company capitalizes inventory costs associated with the Company's products after regulatory approval when, based on management's judgment, future commercialization is considered probable and the future economic benefit is expected to be realized. Inventory acquired and manufactured prior to receipt of regulatory approval of a product candidate is expensed as research and development expense as incurred. Inventory that can be used in either the production of clinical or commercial product is expensed as research and development expense when selected for use in a clinical manufacturing campaign.Inventory levels are evaluated for amounts that would be sold within one year. If the level of inventory exceeds the estimated amount that would be sold beyond the next 12 months, the Company classifies the estimate of such inventory as non-current.Equipment, netEquipment consists primarily of computer equipment and is recorded at cost. Equipment is depreciated on a straight-line basis over its estimated useful life, which the Company estimates to be three years. When equipment is sold or otherwise disposed of, the cost and related accumulated depreciation are removed from the accounts and the resulting gain or loss is included in operating expenses.Research and Development CostsResearch and development costs are expensed as incurred. Research and development expenses consist primarily of employee-related expenses, including salaries, benefits, travel and stock-based compensation expense, contract services, costs incurred to third-party service providers for conducting research, preclinical and clinical studies, laboratory supplies, product license fees, consulting and other related expenses. Research, preclinical and clinical study expenses are estimated based on services performed, pursuant to contracts with third-party research and development organizations that conduct and manage research, preclinical and clinical activities on the Company's behalf, including discussions with internal management personnel and external service providers as to the progress or stage of completion of services and the contracted fees to be paid for such services. If the actual timing of the performance of services or the level of effort varies from the original estimates, accruals are adjusted accordingly. Payments associated with licensing agreements to acquire licenses to develop, use, manufacture and commercialize products that have not reached technological feasibility and do not have alternative future use are expensed as incurred.Advertising CostsAdvertising costs are included in selling, general and administrative expenses and are expensed as incurred. The Company considers advertising costs as expenses related to the promotion of the Company's commercial products. For the three and six months ended June 30, 2024, advertising costs were \$30.3 million and \$54.3 million, respectively. For the three and six months ended June 30, 2023, advertising costs were \$26.7 million and \$48.1 million, respectively.16 Table of ContentsA Income TaxesIncome taxes are accounted for under the asset and liability method. Under this method, deferred tax assets and liabilities are recognized for the future tax consequences attributable to the differences between the financial statement carrying amounts of existing assets and liabilities and their respective tax bases, operating losses, and tax credit carryforwards. Deferred tax assets and liabilities are measured using enacted tax rates expected to apply to taxable income in the years in which those temporary differences are expected to be recovered or settled. The effect of a change in tax rates on deferred tax assets and liabilities is recognized in income in the period that includes the enactment date. Valuation allowances are provided if, based upon the weight of available evidence, it is more likely than not that some or all of the deferred tax assets will not be realized.The Company estimates an annual effective tax rate of 0% for the year ending December 31, 2024 and has not recorded an income tax benefit for the three and six months ended June 30, 2024 since it is projecting losses and has incurred year to date losses in all jurisdictions from which the Company does not benefit due to the full valuation allowance position against the Company's deferred tax assets.The Company recognizes the tax benefit from an uncertain tax position only if it is more likely than not to be sustained upon examination based on the technical merits of the position as well as consideration of the available facts and circumstances. When uncertain tax positions exist, the Company recognizes the tax benefit of tax positions to the extent that the benefit will more likely than not be realized. As of June 30, 2024, the Company does not believe any material uncertain tax positions are present. In the event the Company determines that accrual of interest or penalties are necessary in the future, the amount will be presented as a component of income tax expense.Stock-Based CompensationFor stock options issued, the Company estimates the grant date fair value of each option using the Black-Scholes option pricing model. The Black-Scholes model takes into account the expected volatility of the Company's common stock, the risk-free interest rate, the estimated life of the option, the closing market price of the Company's common stock and the exercise price. The estimates utilized in the Black-Scholes calculation involve inherent uncertainties and the application of management's judgment. In addition, the Company recognizes expense for equity award forfeitures as they occur.For restricted stock units (RSUs), the Company issues them in the form of Company common stock. The fair market value of these awards is based on the market closing price per share on the grant date.The Company recognizes the grant date fair value of the stock options and RSUs over the requisite service period, which is generally the vesting term. For awards only subject to service-based vesting conditions, the Company elected to recognize stock-based compensation expense on a straight-line basis. For awards subject to performance-based vesting conditions, the Company recognizes stock-based compensation expense using the accelerated attribution method when the achievement of the performance condition becomes probable. The expense related to the stock-based compensation is recorded within the same financial statement line item as the grantee's cash compensation.The Company's policy upon exercise of stock options and RSUs is that shares will be issued as new shares drawing on the Company's 2015 Omnibus Incentive Compensation Plan share pool that was adopted by the stockholders in November 2015.17 Table of ContentsA Basic and Diluted Net Loss per Common ShareBasic net loss per share of common stock is computed by dividing net loss by the weighted average number of shares of common stock outstanding during the period. Diluted net loss per share of common stock includes the effect, if any, from the potential exercise or conversion of securities, such as warrants, stock options, RSUs and/or common stock pursuant to the 2023 Employee Stock Purchase Plan (the ESPP), which would result in the issuance of incremental shares of common stock. As the impact of these items is anti-dilutive during periods of net loss, there was no difference between basic and diluted net loss per share of common stock for the three and six months ended June 30, 2024 and 2023.LeasesThe Company determines if an arrangement is a lease at contract inception. Right-of-use assets represent the Company's right to use an underlying asset for the lease term and lease liabilities represent the Company's obligation to make lease payments arising from the lease. When evaluating whether a contract contains a lease, the Company considers whether (1) the contract explicitly or implicitly identifies assets that are contractually defined and (2) the Company obtains substantially all of the economic benefits from the use of that underlying asset and directs how and for what purpose the asset is used during the term of the contract.The Company's lease agreements contain lease and non-lease components. Non-lease components primarily include payments for maintenance and utilities. The Company has applied the practical expedient to combine fixed payments for non-lease components with lease payments and account for them together as a single lease component, which increases the amount of lease assets and corresponding liabilities. Payments under the Company's lease arrangements are primarily fixed, however, variable payments are expensed as incurred and not included in the operating lease asset and liability.Lease assets and liabilities are recognized at the commencement date of the lease based upon the present value of lease payments over the lease term. When determining the lease term, the Company includes options to extend or terminate the lease when it is reasonably certain that the Company will exercise that option. The Company uses the interest rate implicit in the contract when such rate is readily determinable and uses the Company's incremental borrowing rate when the rate implicit in the contract is not readily determinable based upon the information available at the commencement date in determining the present value of the lease payments. The Company's operating leases are reflected in the right-of-use operating asset; operating lease liability, current portion; and operating lease liability, long-term portion in the Company's consolidated balance sheets. Operating lease expense is recognized on a straight-line basis over the lease term and included in selling, general and administrative expenses. Finance leases are included in the non-current inventory and other assets; accrued expenses and other current liabilities; and finance lease liability, long-term in the Company's consolidated balance sheets. Assets under the finance leases are amortized on a straight-line basis over the lease term and included in selling, general and administrative expenses. Short-term leases, defined as leases that have a lease term of 12 months or less at the commencement date, and do not include an option to extend the term or purchase the underlying asset that the Company is reasonably certain to exercise, are excluded from this treatment and are recognized on a straight-line basis over the term of the lease.18 Table of ContentsA Recent Accounting PronouncementsIn November 2023, the Financial Accounting Standards Board (FASB) issued Accounting Standards Update (ASU) 2023-07, Segment reporting, which requires disclosure of incremental segment information on an annual and interim basis. The standard is effective for years beginning after December 15, 2023 and interim periods beginning after December 15, 2024, and early adoption is permitted. The Company is currently evaluating the effect of adopting this guidance on its consolidated financial statements.In December 2023, the FASB issued ASU 2023-09, Improvements to income tax disclosures, which requires disclosure of disaggregated income taxes paid by jurisdiction, enhances disclosures in the effective tax rate reconciliation, and modifies other income tax-related disclosures. The amendments are effective for annual periods beginning after December 15, 2024. The Company is currently evaluating the effect of adopting this guidance on its consolidated financial statements. Note 3. Accounts receivable, netAccounts receivable, net, consisted of the following: a June 30, 2024 a December 31, 2023 A Trade receivables A \$ 133,531 A \$ 107,320 A Less: Reserves for variable consideration A (13,189) A (12,500) Accounts receivable, net A \$ 120,342 A \$ 94,820 A The Company's customers with the largest accounts receivable balances are Cardinal Health, Inc., Cencora, Inc., and McKesson Corporation, which represented approximately 95% of total accounts receivable as of June 30, 2024. For further information, see the section titled Accounts Receivable, netA Note 2. Summary of Significant Accounting Policies. Note 4. InventoryInventory consisted of the following: a June

A December 31, 2023 **A Raw materials** **A \$ 7,771 A** **A \$ 5,534** Work in process **A 10,536 A** **A 10,287 A** Finished goods **A 8,270 A** **A 9,643 A** Total **A \$ 26,577 A** **A \$ 25,464 A** There were no material inventory reserves or write downs of any excess and obsolete inventory as of June 30, 2024. Non-current inventory, which consists of raw materials and work in progress inventory, is included in non-current inventory and other assets on the accompanying consolidated balance sheets. Non-current inventory is anticipated to be consumed beyond the Company's normal operating cycle. The following table summarizes the balance sheet classification of the Company's inventory for each of the periods indicated:

	A June 30, 2024	A
December 31, 2023 A Balance sheet classification A A A Inventories, net A \$ 15,220 A A \$ 15,135 A Non-current inventory and other assets A 11,357 A A A 10,329 A Total A \$ 26,577 A A \$ 25,464 A		
A 19 Table of Contents A Note 5. Intangible Asset The following table provides the Company's carrying amount of the intangible asset for each of the periods indicated.		
A A Gross carrying amount A A Accumulated amortization A Net carrying amount A A Remaining weighted-average useful life Balance at December 31, 2023 A A A A A A A A A A		
A Finite-lived intangible asset A \$ 63,800 A A \$ 10,514 A A \$ 53,286 A A 9-years Balance at June 30, 2024 A A A A A A A A A A A Finite-lived intangible asset A \$ 63,800 A A \$ 13,693 A A \$ 50,107 A A 8-years Based on the finite-lived intangible asset recorded as of June 30, 2024, and assuming the underlying asset will not be impaired and that the Company will not change the expected life of the asset, future amortization expenses over the next five years and periods thereafter are estimated to be as follows:		
A Estimated amortization expense A 2024 A \$ 3,214 A A 2025 A \$ 6,375 A A 2026 A \$ 6,375 A A 2027 A \$ 6,375 A A 2028 A \$ 6,392 A A Thereafter A \$ 21,376 A Total A \$ 50,107 A A Note 6. Fair Value of Financial Instruments In connection with the Acquisition, the Company pays royalty on U.S. net sales of Sunosi to Jazz. The discounted cash flow method used to value this contingent consideration includes inputs of not readily observable market data, which are Level 3 inputs. The fair value of the contingent consideration is reflected as current accrued contingent consideration of \$7.0 million and non-current contingent consideration liability of \$69.6 million in the consolidated balance sheet as of June 30, 2024. The fair value of financial instruments measured on a recurring basis is as follows:		
A June 30, 2024 A A Level 1 A A Level 2 A A Level 3 A A Total Assets: A A A A A A A A A A A Cash and cash equivalents - money market funds A \$ 238,204 A A \$ 6A A A \$ 6A A A \$ 238,204 A Liabilities: A A A A A A A A A A A Contingent consideration A \$ 6A A A \$ 6A A A \$ 76,660 A A \$ 76,660 A A December 31, 2023 A A Level 1 A A Level 2 A A Level 3 A A Total Assets: A A A A A A A A A A A Cash and cash equivalents - money market funds A \$ 251,768 A A \$ 6A A A \$ 6A A A \$ 251,768 A Liabilities: A A A A A A A A A A A Contingent consideration A \$ 6A A A \$ 6A A A \$ 79,707 A A \$ 79,707 A A 20 Table of Contents A Contingent Consideration Liabilities The fair value of the contingent consideration liabilities is marked-to-market each reporting period and was remeasured at June 30, 2024. Changes in fair value of the contingent consideration liabilities as of June 30, 2024 are as follows:		
A A Contingent consideration A Balance at December 31, 2023 A \$ 79,707 A A Adjustment to fair value A \$ 748 A A Payments A (3,795) A Balance at June 30, 2024 (Level 3) A \$ 76,660 A The recurring Level 3 fair value measurements of contingent consideration for which a liability is recorded include the following significant unobservable inputs:		
A A A As of June 30, 2024 A As of December 31, 2023 A A A Valuation methodology A Significant unobservable input A Weighted average (range, if applicable) A Weighted average (range, if applicable) A Probability weighted income approach A Discount rate A 15.9% A A 13.2% A A A Revenue discount rate A 16.1% - 19.1% A A 16.4% - 19.4% The Company's fair value measurement of contingent consideration liabilities has been classified as Level 3 as its valuation requires substantial judgment and estimation of factors which requires use of unobservable inputs. The fair value of contingent consideration liabilities are estimated by using the probability weighted income approach using significant assumptions including estimated future sales of Sunosi in current and future indications, timing of regulatory and commercial milestone achievements, probability of technical and regulatory success rates, and discount rates. If significant changes are made to one or more of these assumptions, the estimated fair value of contingent consideration liabilities may result in a significantly higher or lower fair value measurement.		
Note 7. Accrued Expenses and Other Current Liabilities Accrued expenses and other current liabilities consisted of the following:		
A June 30, 2024 A December 31, 2023 A Accrued research and development A \$ 13,565 A A \$ 6,503 A A Accrued compensation A \$ 16,212 A A \$ 20,457 A A Accrued selling, general and administrative A \$ 14,743 A A \$ 9,242 A A Accrued sales discounts, rebates and allowances A \$ 63,530 A A \$ 46,713 A A Accrued royalties A \$ 5,426 A A \$ 5,927 A A Accrued interest A \$ 1,605 A A \$ 1,659 A A Accrued taxes A \$ 493 A A A A Finance lease liability, current A \$ 1,197 A A A A A Total A \$ 116,771 A A \$ 90,501 A A 21 Table of Contents A Note 8. Loan and Security Agreement Hercules Capital, Inc.Fourth Amendment to the Loan AgreementOn May 8, 2023, the Company entered into the Waiver and Fourth Amendment (the "Fourth Amendment") to its Loan and Security Agreement, dated as of September 25, 2020 (as amended by that certain First Amendment to Loan and Security Agreement, dated as of October 14, 2021, as further amended by the Second Amendment to Loan and Security Agreement, dated as of March 27, 2022, and as further amended by the Third Amendment to Loan and Security Agreement, dated as of January 9, 2023) (the "Loan Agreement") with Hercules Capital, Inc., a Maryland corporation (the "Hercules"), in its capacity as administrative agent and collateral agent, and the other financial institutions or entities party thereto as lenders, with respect to the term loan thereunder (the "2020 Term Loan"). The Fourth Amendment increased the amount of cash that could be held by Axsome Malta Ltd. (the "Axsome Malta") outside of the United States from \$3.0 million to \$15.0 million for a 45-day period after the closing of the Fourth Amendment and to \$10.0 million thereafter. The Fourth Amendment also waived any purported default with respect to the amount of cash held by Axsome Malta prior to the date of the Fourth Amendment. In August 2023, Hercules granted the Company a waiver to the Fourth Amendment, permitting Axsome Malta to hold up to \$12.5 million in Cash outside of the United States until December 31, 2023. Third Amendment to the Loan AgreementOn January 9, 2023, the Company entered into a Third Amendment (the "Third Amendment") to the Loan Agreement with Hercules, in its capacity as administrative agent and collateral agent, and the other financial institutions or entities party thereto as lenders. The Third Amendment amended the terms of the Loan Agreement to, among other things:		
A Extend the maturity date to January 1, 2028, unless the Company meets certain revenue targets as described in the Loan Agreement, in which case the Company can extend the maturity date to January 1, 2029; A Increase the aggregate principal amount under the Loan Agreement from \$300.0 million to \$350.0 million; A Subject to the terms and conditions in the Loan Agreement, change the term loan advance amounts and dates available under the tranche 1 advance through tranche 5 advance, including increasing the tranche 1 advance from one tranche of \$95.0 million to five sub-tranches of \$95.0 million, \$55.0 million, \$30.0 million, \$35.0 million and \$35.0 million, respectively, changing the tranche 2 advance from three sub-tranches of \$35.0 million, \$35.0 million and \$30.0 million to one tranche of \$25.0 million, changing the tranche 3 advance from two sub-tranches of \$15.0 million and \$5.0 million to one tranche of \$75.0 million and removing the tranche 4 advance and tranche 5 advance entirely; A Revise the interest rate applicable to extensions of credit under the Loan Agreement to equal (a) if the prime rate is greater than or equal to 7.00%, the greater of either (i) the prime rate plus 2.20%, and (ii) 9.95%, but in no event greater than 10.70%, and (b) if the prime rate is less than 7.00%, 9.70%; A Increase the minimum cash requirement of the Company to \$30.0 million; and A Require the Company to pay a facility fee equal to 0.75% of the amount of principal actually funded pursuant to the tranche 1B advance, tranche 1C advance, tranche 1D advance, tranche 1E advance, tranche 2 advance and tranche 3 advance. As of June 30, 2024, the Company had allowed tranches 1D, 1E, and 2 which totaled \$95 million, to expire undrawn.		
22 Table of Contents A On October 14, 2021, the Company entered into a First Amendment to the Loan and Security Agreement with Hercules. On March 27, 2022, in connection with the Acquisition (as described above), the Company entered into a Second Amendment to the Loan and Security Agreement (the "Second Amendment") with Hercules. The Second Amendment closed on May 9, 2022, concurrently with the closing of the Acquisition. As collateral for the obligations, the Company has granted to Hercules a senior security interest in all of the Company's right, title, and interest in, to and under all of the Company's property, inclusive of intellectual property, which includes one of the Company's existing license agreements (the "License Agreement") with Antecip, an entity owned by Axsome's Chief Executive Officer and Chairman of the Board, Herriot Tabuteau, M.D., subject to limited exceptions. Antecip consented to the collateral assignment of the License Agreement, among other things, under a direct agreement (the "Direct Agreement") with the Company, Antecip and Hercules. The Loan Agreement contains customary representations, warranties and covenants, including covenants by the Company limiting additional indebtedness, liens (including a negative pledge on intellectual property and other assets), guaranties, mergers and consolidations, substantial asset sales, investments and loans, certain corporate changes, transactions with affiliates and fundamental changes. At the initial closing, there were no applicable financial covenants contained in the Loan Agreement. Effective upon closing of the Third Amendment of the Loan Agreement in January 2023, the following limited financial covenants applied: A Effective upon closing of the Third Amendment of the Loan Agreement, the Company at all times thereafter must maintain cash in an account or accounts in which Hercules has a first priority security interest, in an aggregate amount greater than or equal to \$30.0 million, plus the amount of the Company's accounts payable under U.S. GAAP not paid after the 180th day following the invoice for such account payable (such amount, the "Qualified Cash A/P Amount"); A The Company must meet, beginning June 30, 2023, any of the following conditions: (A) ensure that at all times its market capitalization exceeds \$1.5 billion, and that it maintains cash in an		

Sales Agreement. The March 2022 Sales Agreement supersedes the December 2019 Sales Agreement, dated December 5, 2019, by and between the Company and Leerink. The Company exhausted sales of shares of the Company’s common stock under its prior at-the-market offering program. In August 2022, the Company filed a prospectus supplement to the 2019 Shelf Registration Statement for the issuance and sale, if any, of up to an additional \$250 million in shares of the Company’s common stock. The Company will pay Leerink a commission of up to 3.0% of the gross sales proceeds of any shares sold through Leerink, acting as sales agent, under the March 2022 Sales Agreement. In December 2022, in connection with the 2022 Shelf Registration Statement (as defined below), the Company filed a new sales agreement prospectus to replace the prior prospectus supplement filed in August 2022 associated with the expired 2019 Shelf Registration Statement. The new sales agreement prospectus covered the issuance and sale by the Company of up to the same \$250 million of the Company’s common stock that may be issued and sold from time to time through Leerink, as the Company’s sales agent, under the March 2022 Sales Agreement. Under the March 2022 Sales Agreement, for the three months ended June 30, 2024, the Company received approximately \$11.3 million in gross proceeds through the sale of 148,875 shares, of which net proceeds were approximately \$11.0 million. The Company did not utilize the March 2022 Sales Agreement with Leerink during the three months ended March 31, 2024. 26 Table of Contents
 The Company did not utilize the March 2022 Sales Agreement with Leerink during the year ended December 31, 2023. Under the December 2019 Sales Agreement and March 2022 Sales Agreement, the Company received approximately \$238.8 million in gross proceeds through the sale of 5,167,973 shares, of which net proceeds were approximately \$231.8 million for the year ended December 31, 2022. Under the December 2019 Sales Agreement, the Company received approximately \$7.4 million in gross proceeds through the sale of 110,296 shares, of which net proceeds were approximately \$7.2 million for the year ended December 31, 2021. Upon the closing of the Second Amendment, which occurred in March 2022, Hercules also purchased 152,487 of the Company’s unregistered common stock for a total consideration of \$5.0 million at a share price equal to \$32.79 per share, pursuant to a share transfer agreement. The holders of shares of common stock are entitled to one vote for each share of common stock held at all meetings of stockholders and written actions in lieu of meetings. The holders of shares of common stock are entitled to receive dividends, if and when declared by the Board. June 2023 Public Offering
 In June 2023, the Company completed an underwritten public offering of its common stock (the “June 2023 Public Offering”). The Company sold 3.0 million shares of its common stock at a public offering price of \$75.00 per share. The net proceeds were \$211.3 million, net of underwriting discounts and commissions of \$13.5 million and other offering costs of \$0.2 million. Additionally, in connection with this public offering, in July 2023, the underwriters fully exercised their option to purchase 450,000 additional shares of the Company’s common stock at a public offering price of \$75.00 per share. The net proceeds from the exercise of the option were \$31.7 million, net of underwriting discounts and commissions of \$2.0 million and other minimal offering costs. Shelf Registration Statement
 On December 2, 2022, the Company filed an automatic shelf registration statement (the “2022 Shelf Registration Statement”) with the SEC for the issuance of common stock, preferred stock, warrants, rights, debt securities and units. It became effective upon filing with the SEC and is currently the Company’s only active shelf registration. Under SEC rules, the 2022 Shelf Registration Statement allows for the potential future offer and sale by the Company, from time to time, in one or more public offerings of an indeterminate amount of the Company’s common stock, preferred stock, debt securities, and units at indeterminate prices. At the time any of the securities covered by the 2022 Shelf Registration Statement are offered for sale, a prospectus supplement will be prepared and filed with the SEC containing specific information about the terms of any such offering. Equity Incentive Plan
 In November 2015, the 2015 Omnibus Incentive Compensation Plan (the “2015 Plan”) was adopted by the Company’s stockholders. As of June 30, 2024, there were 1,183,992 shares available for future grant under the 2015 Plan. 27 Table of Contents
 A Stock Options The following table sets forth stock option activity as of June 30, 2024:
 A Number of shares A Weighted average exercise price A Weighted average contractual term A Aggregate intrinsic value A Outstanding at December 31, 2023 A 8,462,294 A 41.48 A 1.047,180 A 83.23 A 1.047,180 A 193,125 A 32.59 A 377,542 A 59.88 A 314,480 A 314,480 A Exercisable at June 30, 2024 A 5,066,333 A 32.08 A 5.3 A 245,888 A The fair value of each stock option grant is estimated on the date of grant using the Black-Scholes option pricing model. The expected term of the Company’s stock options has been determined utilizing the “simplified” method as described in the SEC’s Staff Accounting Bulletin No. 107 relating to stock-based compensation. The simplified method was chosen because the Company has limited historical option exercise experience due to its short operating history. The risk-free interest rate is based on the U.S. Treasury yield in effect at the time of grant for a period approximately equal to the expected term of the award. Expected dividend yield is based on the fact that the Company has never paid cash dividends and does not expect to pay any cash dividends in the foreseeable future. In prior years, expected volatility was based on historical volatilities of similar entities within the Company’s industry which were commensurate with the Company’s expected term assumption. Currently, expected volatility is based on historical volatility information of the Company’s common stock since the Company’s initial public offering in 2015. The weighted average grant date fair value of options granted was \$64.42 per option for the six months ended June 30, 2024. As of June 30, 2024, there was \$177.5 million of total unrecognized compensation cost related to non-vested stock options which is expected to be recognized over a weighted average period of 2.7 years. Restricted Stock Units
 The fair value of RSUs is determined on the date of the grant based on the market price of its shares of common stock as of that date. The fair value of the RSUs is recognized as an expense ratably over the vesting period of four years. As of June 30, 2024, total compensation cost not yet recognized related to unvested RSUs was \$44.8 million, which is expected to be recognized over a weighted-average period of 2.8 years. The intrinsic value of RSUs lapsed during the six months ended June 30, 2024 was \$7.6 million. The following table sets forth the RSU activity for the six months ended June 30, 2024:
 A Number of shares A Weighted average grant date fair value A Outstanding at December 31, 2023 A 804,150 A 41.36 A 397,237 A 75.23 A 226,323 A 37.11 A 82,009 A 49.83 A Outstanding at June 30, 2024 A 893,055 A 56.74 A 28 Table of Contents
 Employee Stock Purchase Plan
 The ESPP allows eligible employees to purchase shares of the Company’s common stock. The purchase price is equal to 85% of the lower of the closing price of the Company’s common stock on (1) the first day of the offering period or (2) the last day of the offering period. The ESPP has consecutive offering periods that begin on or about June 1st of each year with a duration of 12 months. The Company commenced the first offering period pursuant to the ESPP on June 1, 2023, and such offering ended on May 31, 2024. As of June 30, 2024, 52,368 common shares have been purchased and issued pursuant to the ESPP, and \$0.4 million and \$0.8 million of expense was recorded for the three and six months ended June 30, 2024. Stock-based Compensation Expense
 Stock-based compensation expense recognized was as follows:
 A Three months ended June 30, 2024 A Six months ended June 30, 2024 A 2024 A 2023 A 2024 A 2023 A Research and development A 5,072 A 3,238 A 9,640 A 5,652 A Selling, general and administrative A 16,310 A 12,684 A 31,932 A 23,213 A Total A 21,382 A 15,922 A 41,572 A 28,865 A Stock-based compensation expense capitalized into inventory totaled \$0.3 million and \$0.7 million for the three and six months ended June 30, 2024, respectively, and \$0.9 million and \$1.6 million for the three and six months ended June 30, 2023, respectively. The Company started capitalizing stock-based compensation to inventory in the third quarter of 2022. Capitalized stock-based compensation is recognized as an expense in cost of product sales when the related product is sold or in selling, general and administrative expense when the related product is dispensed as a physician sample. Note 11. Warrants
 The following table summarizes warrant activity for the six months ended June 30, 2024:
 A Warrants A Weighted average exercise price A Outstanding at December 31, 2023 A 79,220 A 56.80 A Issued A 6. A Exercised A 6 A Outstanding at June 30, 2024 A 79,220 A 56.80 A Outstanding Warrants
 In connection with the entry into the Third Amendment, Hercules received warrants to purchase an aggregate of 18,724 shares of the Company’s common stock at an exercise price of \$55.01 per share, and in connection with the draw down of the tranche 1C advance, Hercules received warrants to purchase 9,700 shares of the Company’s common stock at an exercise price of \$77.31 per share (collectively, the “2023 warrants”). In connection with the entry into the Second Amendment, Hercules received warrants to purchase an aggregate of 35,255 shares of the Company’s common stock at an exercise price of \$31.91 per share (the “2022 warrants”), and in connection with the first advance of the 2020 Term Loan, Hercules received warrants to purchase an aggregate of 15,541 shares of the Company’s common stock at an exercise price of \$80.43 per share (the “2020 warrants”). 29 Table of Contents
 A The 2023 warrants, 2022 warrants and 2020 warrants were priced using the volume weighted average price of the Company’s common stock over the ten-day trading period immediately preceding the initial closing, subject to certain limited adjustments as specified in the warrant. The warrants are exercisable for seven years from the date of issuance. The warrants were classified as a component of stockholders’ equity. The relative fair value of the warrants of approximately \$1.6 million for the 2023 warrants, \$0.8 million for the 2022 warrants and \$0.9 million for the 2020 warrants at the time of issuance, which was determined using the Black-Scholes option-pricing model, was recorded as additional paid-in capital and reduced the carrying value of the debt. The discount on the debt is being amortized to interest expense over the term of the debt utilizing the effective interest rate method. Note 12. Net Loss per Common Share
 The following table sets forth the computation of basic and diluted net loss per common share:
 A Three months ended June 30, 2024 A Six months ended June 30, 2024 A 2024 A 2023 A Basic and diluted net loss per common share: A 47,573,229 A 43,669,820 A 47,482,602 A 43,597,131 A Net loss (79,345) (67,170) (147,702) (78,388) Weighted average common shares outstanding A basic and diluted A 47,573,229 A 43,669,820 A 47,482,602 A 43,597,131 A Net loss per common share A basic and diluted A (1.67) A (1.54) A (3.11) A (1.80) The following potentially dilutive securities have been excluded from the computation of diluted weighted average shares outstanding, as they would be anti-dilutive:
 A June 30, 2024 A 2024 A 2023 A Stock options A 8,938,807 A 7,930,579 A Restricted stock units A 893,055 A 776,708 A Warrants A 79,220 A 79,220 A ESPP A 72,902 A 72,902 A Total A 9,983,984 A 8,786,507 A 30 Table of Contents
 Note 13. Revenues
 The Company sells Sunosi and Auvelity in the United States through the Distributors. The Company sells Sunosi, on a product supply basis, to Pharmanovia, and Sunosi is subsequently sold within the licensed territories. License revenue consists of the recognition of the upfront payment the Company received from Pharmanovia in February 2023 and royalty revenue is related to sales of Sunosi by Pharmanovia in certain ex-U.S. markets. The following table presents a summary of total revenues by product:
 A Three months ended June 30, 2024 A Six months ended June 30, 2024 A 2024 A 2023 A Product sales, net A 86,520 A 46,017 A 160,616 A 74,586 A Sunosi license revenue A 87,166 A 46,700 A 162,165 A 141,276 A The following table presents a summary of total revenues by geographic location:
 A Three months ended June 30, 2024 A Six months ended June 30, 2024 A 2024 A 2023 A Product sales, net A 86,520 A 46,017 A 160,616 A 74,586 A License revenue A 87,166 A 46,700 A 162,165 A 141,276 A For the six months ended June 30, 2024, product sales, net, includes adjustments for provisions for product sales made in 2023 resulting from changes in estimates of \$1.1 million for Auvelity and \$0.6 million for Sunosi. For the six months ended June 30, 2023, product sales, net, includes adjustments for provisions for product sales made in 2022 resulting from changes in estimates of \$0.8 million for Auvelity and \$0.1 million for Sunosi. Note 14. License Agreements
 License Agreement with Pharmanovia
 In February 2023, Axsome Malta, a Malta limited company and a wholly-owned subsidiary of the Company, entered into an exclusive license agreement with Pharmanovia (the “Pharmanovia License Agreement”) to commercialize and further develop Sunosi in Europe and certain countries in the Middle East and North Africa (the “Territory”). Under the terms of the Pharmanovia License Agreement, the Company retains its existing interest in Sunosi intellectual property and licenses those rights in the Territory to Pharmanovia. Pharmanovia is solely responsible for the clinical development and commercialization of Sunosi in the Territory. The Company will continue to manufacture Sunosi and provide product supply to Pharmanovia for an indefinite period of time, and the Company will recognize revenue as a component of product sales, net, when product is supplied to Pharmanovia. 31 Table of Contents
 In consideration for entering the Pharmanovia License Agreement, the Company received a non-refundable upfront payment of \$~62.0 million (\$65.7 million). The Company also will receive a royalty percentage in the mid-twenties on Sunosi net sales in the Territory and is eligible to receive sales-based milestone payments totaling up to \$~94.5 million. The Company evaluated the Pharmanovia License Agreement under ASC 606 and concluded that Pharmanovia represents a customer in the transaction. The initial transaction price consisted of the non-refundable upfront payment, which was recognized as License Revenue in the first quarter of 2023 upon transfer of the license to Pharmanovia, as the requirement for revenue recognition under ASC 606 were met. The remaining forms of consideration are variable because they are dependent on the achievement of sales-based or other milestones. The Company evaluated the constraint on variable consideration and concluded that the milestone payments are dependent on regulatory approvals and actions of third parties, and thus are highly susceptible to factors outside the Company’s influence. Therefore, at contract inception, the milestones are not included in the transaction price as it is not probable that a significant reversal of revenue would not occur. Sales-based milestones will be recognized as revenue in the period when the related sales threshold is met. All other development or regulatory milestones will be recognized as revenue immediately in the period the underlying milestone is achieved. Any consideration related to sales-based royalties will be recognized when the related sales occur. The Company recognized royalty revenue of \$0.6 million and \$0.7 million for the three months ended June 30, 2024 and 2023, respectively, and \$1.5 million and \$1.0 million for the six months ended June 30, 2024 and 2023, respectively, related to Pharmanovia’s sales of Sunosi. No other development or sales-based milestones were recognized during the six months ended June 30, 2024 and 2023. Exclusive License Agreement with Pfizer
 In January 2020, the Company entered into an exclusive license agreement with Pfizer Inc. (the “Pfizer”) for Pfizer’s clinical and nonclinical data, and intellectual property for reboxetine, the active pharmaceutical ingredient in AXS-12 which the Company is developing for the treatment of narcolepsy. The agreement also provides the Company exclusive rights to develop and commercialize esreboxetine, a new late-stage product candidate referred to as AXS-14, in the U.S. for the treatment of fibromyalgia. Under the terms of the agreement, Pfizer received 82,019 shares of the Company’s common stock having a stated value of \$8.0 million, based on the average closing price of the Company’s common stock for the ten prior trading days of \$97.54, in consideration for the license and rights and also received an upfront cash payment of \$3.0 million. The Company determined that the fair value of each share of common stock granted to Pfizer on the closing date of January 9, 2020 was \$87.24, based on the closing price of the Company’s stock on that date. As a result, the fair value of the stock issued was \$7.2 million and, therefore, the total research and development expense recognized was \$10.2 million related to the Pfizer license agreement during the year ended December 31, 2020. Pfizer can also receive up to \$323 million in regulatory and sales milestones, and tiered mid-single to low double-digit royalties on future sales related to the licensed products. Pfizer will also have a right of first negotiation on any potential future strategic transactions involving AXS-12 and AXS-14. During the three and six months ended June 30, 2024 and 2023, no milestone payments or royalties were paid to Pfizer by the Company. 32 Table of Contents
 A Exclusive License Agreements with Antecip
 In 2012, the Company entered into three exclusive license agreements with Antecip, an entity owned by the Company’s Chief Executive Officer and Chairman of the Board, Herriot Tabuteau, M.D., in which the Company was granted exclusive licenses to develop, manufacture and commercialize Antecip’s patents and applications related to the development of AXS-05 (now marketed as Auvelity) and two product candidates no longer under active development, anywhere in the world for human therapeutic, veterinary, and diagnostic use. Pursuant to the agreements, the Company is required to use commercially reasonable efforts to develop, obtain regulatory approval for and commercialize these product candidates. Under the terms of the agreements, the Company is required to pay to Antecip a royalty equal to 3.0% for AXS-05 (and 1.5% or 4.5% for the other two product candidates no longer under active development), of net sales of products containing the licensed technology by the Company, its affiliates, or permitted sublicensees. These royalty payments are subject to reduction by an amount up to 50.0% of any required payments to third parties. Unless earlier terminated by a party for cause or by the Company for convenience, the agreements shall remain in effect on a product-by-product and country-by-country basis until the later to occur of (i) the applicable product is no longer covered by a valid claim in that country or (ii) 10 years from the first commercial sale of the applicable product in that country. Upon expiration of the agreements with respect to a product in a country, the Company’s license grant for that product in that country will become a fully paid-up, royalty-free, perpetual non-exclusive license. If Antecip terminates any of the agreements for cause, or if the Company exercises its right to terminate any of the agreements for convenience, the rights granted to the Company under such terminated agreement will revert to Antecip. The Company began recording royalty payments to Antecip along with the initiation of sales of Auvelity (the components of which are referred to as AXS-05a) in the fourth quarter of 2022. For the six months ended June 30, 2024 and 2023, the Company recorded royalty expense of \$3.6 million

and \$1.3 million, respectively, for royalty due to Antecip, which is equal to 3.0% of net sales of Auvelity. This is considered to be a related party transaction. In connection with the Loan Agreement, the Company entered into the Direct Agreement with Antecip and Hercules, pursuant to which Antecip consented to the collateral assignment of the License Agreement under the Loan Agreement, among other things. Note 15. Royalty Agreements On March 25, 2022, the Company entered into an Asset Purchase Agreement (the "Purchase Agreement") with Jazz, pursuant to which the Company was to acquire commercial and development rights with respect to Sunosi from Jazz in certain U.S. and ex-U.S. markets. The Acquisition occurred in two separate closings. The sale and purchase of specified initial assets contemplated by the Purchase Agreement occurred on May 9, 2022 (the "Initial Closing"), following the satisfaction or waiver of the closing conditions under the Purchase Agreement. The sale and purchase of specified ex-U.S. assets contemplated by the Purchase Agreement occurred on November 14, 2022, following the satisfaction or waiver of the closing conditions under the Purchase Agreement (the "Final Closing"). The Company accounted for the Initial Closing as a business combination using the acquisition method of accounting, and the Company accounted for the Final Closing as an asset acquisition. Pursuant to the Purchase Agreement, the Company agreed to make non-refundable, non-creditable royalty payments to Jazz equal to (A) high single-digit royalty for any current indication, or (B) mid single-digit royalty for any future indication of net sales in the U.S. Territory made during the applicable royalty term. There are no royalty payments due to Jazz for Net Sales outside of the U.S. Territory. At the Initial Closing, the Company assumed all of the commitments of Jazz to SK and Aerial. SK is the originator of Sunosi and retains rights in 12 Asian markets, including China, Korea and Japan. In 2014, Jazz acquired from Aerial worldwide rights to Sunosi excluding those Asian markets stated previously. The assumed commitments to SK and Aerial include single-digit tiered royalties based on the Company's sales of Sunosi, and additionally, the Company is committed to pay up to \$165 million based on revenue milestones and \$1 million based on development milestones. 33 Table of ContentsÂ Note 16. Income Taxes The table below presents the Company's loss before income taxes and effective tax rates for all periods presented: Â Three months ended June 30, Â Six months ended June 30, Â 2024 Â 2023 Â 2024 Â 2023 Â Loss before income taxes Â \$ (79,345) Â \$ (67,787) Â \$ (147,702) Â \$ (76,425) Â Income tax benefit (expense) Â Â Â Â 617 Â Â Â Â Â (1,963) Â Effective tax rate Â Â % Â (0.9) % Â Â % Â 2.6 % The Company is subject to income taxes in the United States and foreign jurisdictions in which the Company does business. These foreign jurisdictions have statutory tax rates different from those in the United States. Accordingly, the Company's effective tax rates will vary depending on the relative proportion of foreign to United States income, the utilization of net operating loss and tax credit carry forwards, changes in geographic mix of income and expense, and changes in management's assessment of matters such as the ability to realize deferred tax assets and changes in tax laws. The Company regularly assesses the likelihood of adverse outcomes resulting from the examination of the Company's tax returns by the Internal Revenue Service (the "IRS") and other tax authorities to determine the adequacy of its income tax reserves and expense. Should actual events or results differ from the Company's current expectations, charges or credits to its income tax expense may become necessary. The Company did not record a tax expense for the three and six months ended June 30, 2024. The Company recorded a tax benefit of \$0.6 million for the three months ended June 30, 2023 and a Maltese tax expense of \$2.0 million for the six months ended June 30, 2023 on income earned in Malta in relation to the license revenue recognized from the Pharmanovia License Agreement. The Company did not have any unrecognized tax benefits as of June 30, 2024 related to uncertain tax positions that would impact the effective income tax rate if recognized. The Company is currently under examination by the IRS for the Company's 2021 U.S. income tax return. The Company is not currently under examination at the state level. The Company's U.S. federal and state net operating losses have occurred since its inception in 2012 and as such, tax years subject to potential tax examination could apply from that date because the utilization of net operating losses from prior years opens the relevant year to audit by the IRS and/or state taxing authorities. Note 17. Related Party Transactions From the Company's inception, Herriot Tabuteau, M.D. has been the Company's founder, Chief Executive Officer, Chairman of the Company's Board, and the beneficial owner of more than 5% of the outstanding shares of the Company's common stock. In connection with the formation of the Company, in January 2012, the Company issued to Antecip Bioventures II LLC, an entity controlled by Dr. Tabuteau, an aggregate of 7,344,500 shares of the Company's common stock for nominal consideration. The Company recorded royalty expense of \$2.0 million and \$3.6 million for the three and six months ended June 30, 2024, respectively, and \$0.8 million and \$1.3 million for the three and six months ended June 30, 2023, respectively, which equal 3.0% of net sales of Auvelity. The Company is a party to three exclusive license agreements with Antecip Bioventures II LLC, an entity owned by Dr. Tabuteau. See Note 14. License Agreements for further information regarding the license agreements. 34 Table of ContentsÂ ITEM 2. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS The following discussion and analysis contains forward-looking statements about our plans and expectations of what may happen in the future. Forward-looking statements are based on a number of assumptions and estimates that are inherently subject to significant risks and uncertainties, and our results could differ materially from the results anticipated by our forward-looking statements as a result of many known or unknown factors, including, but not limited to, those factors discussed in "Risk Factors." See also the "Cautionary Note Regarding Forward-Looking Statements" set forth at the beginning of this report. You should read the following discussion and analysis in conjunction with the unaudited interim consolidated financial statements, and the related footnotes thereto, appearing elsewhere in this report, and in conjunction with management's discussion and analysis and the audited consolidated financial statements included in our Annual Report on Form 10-K for the year ended December 31, 2023 which was filed with the Securities and Exchange Commission, or SEC, on February 23, 2024. Overview We are a commercial-stage biopharmaceutical company developing and delivering novel therapies for central nervous system, or CNS, conditions that have limited treatment options. By focusing on this therapeutic area, we are addressing significant and growing markets where current treatment options are limited or inadequate. The Company's CNS portfolio includes three not yet approved product candidates, AXS-07, AXS-12, and AXS-14, which are being developed for multiple indications, and two approved products - AuvelityÂ and SunosiÂ - both of which are also being developed for further indications. In May 2022, the Company completed the U.S. acquisition of Sunosi from Jazz Pharmaceuticals, or Jazz, and in November 2022, the Company acquired the ex-U.S. assets of Sunosi from Jazz for certain international markets, or, collectively, the Acquisition. Sunosi is a product approved by the U.S. Food and Drug Administration, or the FDA, and marketed in the U.S. to improve wakefulness in adult patients with excessive daytime sleepiness associated with narcolepsy or obstructive sleep apnea, and also approved in Europe in January 2020 by the European Commission. In August 2022, the Company announced the FDA approval, and in October 2022, the U.S. commercial availability of Auvelity. Auvelity is indicated to the treatment of major depressive disorder in adults. Commercial Products 1. AuvelityÂ Auvelity (dextromethorphan-bupropion) is a novel, oral, N-methyl-D-aspartate (NMDA) receptor antagonist with multimodal activity indicated to the treatment of major depressive disorder, also known as MDD. Auvelity was developed by the Company and approved by the U.S. Food and Drug Administration, or the FDA, for the treatment of MDD in August 2022. We commenced the commercial sale of Auvelity in the United States in October 2022. 2. SunosiÂ Sunosi (solriamfetol) is a novel, oral medication indicated to the treatment of excessive daytime sleepiness, also known as EDS, in patients with narcolepsy or obstructive sleep apnea. Sunosi was approved for the treatment of EDS in the United States in 2019 and by the European Commission in 2022. We acquired the U.S. rights to Sunosi from Jazz Pharmaceuticals plc, or Jazz, in May 2022 and worldwide ex-U.S. rights (excluding certain Asian markets) from Jazz in November 2022. We have been commercializing Sunosi since we completed these acquisitions. SK Biopharmaceuticals Co. Ltd., or SK, is the originator of Sunosi and retains rights in 12 Asian markets, including China, Korea, and Japan. We refer to the acquisition of Sunosi herein as the Acquisition. In February 2023, we announced a licensing transaction, or the Pharmanovia License Agreement, with Atnahs Pharma UK Limited, or Pharmanovia, to market Sunosi in Europe and certain countries in the Middle East and North Africa, or the Territory. 35 Table of ContentsÂ Development Programs When used in programs for further development, we refer to the proprietary dextromethorphan-bupropion formulation contained in Auvelity as AXS-05.Â AXS-05 is a novel, oral, investigational NMDA receptor antagonist with multimodal activity under development for the treatment of Alzheimer's disease agitation, or AD agitation and smoking cessation. AXS-05 utilizes a proprietary formulation and dose of dextromethorphan and bupropion, and Axsome's metabolic inhibition technology, to modulate the delivery of the components. We have completed a Phase 2/3 trial of AXS-05 in AD agitation, which we refer to as the ADVANCE-1 trial. AXS-05 achieved the primary endpoint in the ADVANCE-1 trial. We have also completed the ACCORD-1 trial, a Phase 3, double blind, placebo-controlled, randomized withdrawal trial in patients with AD agitation, and we are conducting an open-label long-term safety study in AD agitation. We are currently conducting the ADVANCE-2 trial, another Phase 3, double blind, placebo-controlled, trial in patients with AD agitation. We are also conducting the ACCORD-2 study, a Phase 3, double-blind, placebo-controlled, randomized withdrawal trial in patients with AD agitation. A positive Phase 2 trial for the use of AXS-05 in smoking cessation has been completed under a research collaboration with Duke University. AXS-07 is a novel, oral, rapidly absorbed, multi-mechanistic, investigational medicine under development for the acute treatment of migraine. AXS-07 consists of MoSEIcA, or Molecular Solubility Enhanced Inclusion Complex, meloxicam and rizatriptan. We have completed two Phase 3 trials of AXS-07 for the acute treatment of migraine, which we refer to as the MOMENTUM and INTERCEPT trials. AXS-07 achieved the co-primary endpoints in both the MOMENTUM and INTERCEPT trials. We have also completed an open-label, long-term, safety study of AXS-07 in patients with migraine known as the MOVEMENT trial. In the MOVEMENT trial, administration of AXS-07 resulted in rapid, and substantial relief of migraine pain and associated symptoms and was well tolerated with long term dosing. We are currently conducting the EMERGE study, a multicenter, Phase 3, single-group trial evaluating the efficacy and safety of AXS-07 in the acute treatment of migraine in adults with a prior inadequate response to an oral CGRP inhibitor. We submitted a new drug application, or NDA, for AXS-07 in 2021, which was accepted, and received a complete response letter, or CRL, from the FDA in April 2022. The principal reasons given in the CRL relate to chemistry, manufacturing, and controls, or CMC considerations. We resubmitted the NDA for AXS-07 for the acute treatment of migraine to the FDA, which the FDA is expected to classify as a Class 2 resubmission. AXS-12, reboxetine, is a novel, oral, investigational medicine in development for the treatment of narcolepsy. AXS-12 is a highly selective and potent norepinephrine reuptake inhibitor. AXS-12 has been granted FDA Orphan Drug Designation for the treatment of narcolepsy. We have completed a Phase 2 trial with AXS-12, which we refer to as the CONCERT study. We recently completed the randomized, placebo-controlled Phase 3 trial with AXS-12 in narcolepsy, which we refer to as the SYMPHONY study, where AXS-12 achieved the primary endpoint in the trial of reducing cataplexy attacks. We are currently conducting one open-label long-term safety extension study with AXS-12. AXS-14, esreboxetine, is a novel, oral, investigational medicine in development for the treatment of fibromyalgia. AXS-14 is a highly selective and potent norepinephrine reuptake inhibitor. Esreboxetine, the S-enantiomer of reboxetine, is more potent and selective than racemic reboxetine. We have in-licensed data from Pfizer Inc., or Pfizer, which includes a completed Phase 2 trial and Phase 3 trial in fibromyalgia, both of which were positive. Solriamfetol is the active ingredient in Sunosi. It is an oral, dual-acting dopamine and norepinephrine reuptake inhibitor and TAAR1 agonist. We are currently conducting three Phase 3, double blind, placebo-controlled, randomized multicenter trials with solriamfetol: one in MDD, which we refer to as the PARADIGM study and the second in binge eating disorder, or BED, which we refer to as the ENGAGE study, and the third in adults with attention-deficit/hyperactivity disorder, which we refer to as the FOCUS study. We also recently initiated a fourth study, a randomized, double-blind, placebo-controlled Phase 3 trial of solriamfetol in shift work disorder, or SWD, which we refer to as the SUSTAIN study. 36 Table of ContentsÂ Additionally, we are currently evaluating other product candidates, which we intend to develop for CNS disorders. We aim to become a fully integrated biopharmaceutical company that develops and commercializes differentiated therapies that increase available treatment options and improve the lives of patients living with CNS disorders. Our product candidates are protected through a combination of patents, trade secrets, and proprietary know-how. If approved, they may also be eligible for periods of regulatory exclusivity. Our intellectual property portfolio includes issued U.S. and foreign patents with claims extending to 2034, 2040, 2041, and 2043 for AXS-05, to 2038 for AXS-07, and to 2040 for AXS-12, as well as U.S. and foreign patent applications for AXS-05, AXS-07, AXS-12, and AXS-14. As with respect to Sunosi, Orange Book listed patents in the United States extend out to 2042. We also have patents in various other countries pertaining to Sunosi. In June 2024, we entered into a settlement agreement with Unichem Laboratories Ltd. (Unichem) resolving patent litigation related to Sunosi that permits Unichem to begin selling its generic version of Sunosi on June 30, 2042, or earlier under certain circumstances. Since our incorporation in January 2012, our operations to date have included organizing and staffing our company, business planning, raising capital, developing our compounds, engaging in other discovery and preclinical activities, and the commercial launches of Sunosi and Auvelity. Subsequent to our IPO, we financed our operations primarily through proceeds from sales of our common stock to equity investors and debt borrowings. For a further discussion, see the section entitled "Liquidity and Capital Resources" below. Our ability to become profitable depends on our ability to generate revenue. We have begun commercial sales of Sunosi and Auvelity, but we have limited experience with commercializing these, or any, products. We have incurred significant operating and net losses since inception. We incurred net losses of \$147.7 million and \$78.4 million for the six months ended June 30, 2024 and 2023, respectively. Our accumulated deficit as of June 30, 2024 was \$983.3 million, and we expect to incur significant expenses and continuing operating losses. We expect our expenses to increase in connection with our ongoing activities as we continue the commercialization of our currently marketed products and the development and clinical trials of, and seek regulatory approval for, our current product candidates and any other product candidates that we develop or in-license and advance to clinical development. Further, we have incurred and will continue to incur additional costs associated with operating as a public company. Accordingly, we may need additional financing to support our continuing operations. We may seek to fund our operations through public or private equity, debt financings, or other sources. Adequate additional financing may not be available to us on acceptable terms, or at all. Our failure to raise capital as and when needed would have a negative impact on our financial condition and our ability to pursue our business strategy. We will need to generate significant revenue to achieve profitability, and we may never do so. Year to Date and Recent Developments AXS-05 In May 2024, we announced the initiation of the ACCORD-2 study, a Phase 3, double-blind, placebo-controlled, randomized withdrawal trial to evaluate the efficacy and safety of AXS-05 in the treatment of AD agitation. Solriamfetol In March 2024, we announced the initiation of the PARADIGM study, a Phase 3, randomized, double-blind, placebo-controlled, multicenter trial of solriamfetol for the treatment of MDD. In April 2024, we announced the initiation of the ENGAGE study, a Phase 3, randomized, double-blind, placebo-controlled, multicenter trial of solriamfetol for the treatment of BED. In August 2024, we announced the initiation of the SUSTAIN study, a Phase 3, randomized, double-blind, placebo-controlled, multicenter trial of solriamfetol for the treatment of SWD. 37 Table of ContentsÂ AXS-12 In March 2024, we reported positive top-line data from the Phase 3 trial of AXS-12 in narcolepsy, which we call the SYMPHONY study. Financial Overview Revenue We generated net revenue from product sales of \$86.5 million and \$46.0 million in the three months ended June 30, 2024 and 2023, respectively, and \$160.6 million and \$74.6 million in the six months ended June 30, 2024 and 2023, respectively. We expect that Sunosi and Auvelity revenues are likely to fluctuate based on demand quarter to quarter. We will not generate revenue from other products unless and until we successfully develop, obtain regulatory approval of, and commercialize one of our current or future product candidates. We have incurred significant operating losses since inception. If we fail to complete the development of our product candidates in a timely manner or obtain regulatory approval for them, our ability to generate future revenue from such product candidates, and our results of operations and financial position, would be materially and adversely affected. If we enter into licensing or collaboration arrangements, such agreements may or may not generate revenue in the future. Additionally, in the first quarter of 2023, we recorded license revenue of \$65.7 million related to the Pharmanovia License Agreement (as defined below). See below for more detail. License Agreement with Pharmanovia In February 2023, we entered into the Pharmanovia License Agreement with Pharmanovia to commercialize and further develop SunosiÂ in the Territory. Pharmanovia is a UK-based global life cycle management healthcare company that focuses on four core therapeutic areas - Oncology, Endocrinology, Neurology and Cardiovascular. We received an upfront payment of -,-62.0 million (\$65.7 million) during the first quarter of 2023 and are eligible to receive sales-based and other milestone payments totaling up to -,-94.5 million. We will receive a royalty percentage in the mid-twenties on net sales of the Licensed Products (as defined in the Pharmanovia License Agreement) in the Territory. We recognized royalty revenue of \$0.6 million and \$0.7 million for the three months ended June 30, 2024 and 2023, respectively, and \$1.5 million and \$1.0 million for the six months ended June 30, 2024 and 2023, related to Pharmanovia's sales of Sunosi. Cost of revenue Cost of revenue includes direct costs of formulating, manufacturing and packaging drug product, overhead costs consisting of labor, customs, stock-based compensation, shipping, outside inventory management, royalty expense, and other miscellaneous operating costs. Research and development expenses Research and development expenses primarily include preclinical studies, clinical trials, manufacturing costs, employee-related expenses including salaries, benefits, travel, and stock-based compensation expense, contract services, including external research and development expenses incurred under arrangements with third parties, such as contract research organizations, or CROs, facilities costs, overhead costs, depreciation, and other related costs. 38 Table of ContentsÂ Research and development activities are central to our business model. We have and will incur substantial costs beyond our present and planned clinical trials in order to file a new drug application, or NDA, for any of our product candidates. It is difficult to determine with certainty the costs and duration of our current or future clinical trials and preclinical studies, or to what extent we will generate revenue from the commercialization and sale of

Novartis and Avelevity or our product candidates or obtain regulatory approval. The duration, costs, and timing of clinical trials and development of our product candidates will depend on a variety of factors, including the uncertainties of future clinical trials and preclinical studies, uncertainties in clinical trial enrollment rate, and significant and changing government regulation. In addition, the probability of success for each product candidate will depend on numerous factors, including competition, manufacturing capability, and commercial viability. We will determine which programs to pursue and how much to fund each program in response to the scientific and clinical success of each product candidate, as well as an assessment of each product candidate's commercial potential. Management considers many factors in developing the estimates and assumptions that are used in the preparation of these financial statements. Management must apply significant judgment in this process. In addition, other factors may affect estimates, including expected business and operational changes, sensitivity and volatility associated with the assumptions used in developing estimates, and whether historical trends are expected to be representative of future trends. The estimation process often may yield a range of potentially reasonable estimates of the ultimate future outcomes and management must select an amount that falls within that range of reasonable estimates. This process may result in actual results differing materially from those estimated amounts used in the preparation of the financial statements if these results differ from historical experience, or other assumptions do not turn out to be substantially accurate, even if such assumptions are reasonable when made. Selling, general and administrative expenses Selling, general and administrative expenses primarily consist of salaries and related costs for personnel in executive, commercial, finance, and operational functions, including stock-based compensation and travel expenses. Also included in selling, general and administrative expenses are marketing costs, other commercial costs, pre-commercialization costs, facility-related costs, insurance expense, professional fees for legal and accounting services, and patent filing and prosecution costs. Selling, general and administrative expenses are expensed when incurred. Interest expense, net Interest expense, net, primarily consists of cash interest and non-cash costs related to our term loans (see "Liquidity and Capital Resources" below for a further discussion). We amortize these costs over the term of our debt agreements as interest expense in our consolidated statement of operations. Interest expense, net also includes interest income earned on cash. Critical Accounting Policies and Significant Judgments and Estimates This discussion and analysis of our financial condition and results of operations is based on our consolidated financial statements, which have been prepared in accordance with generally accepted accounting principles in the United States of America, or U.S. GAAP. The preparation of these consolidated financial statements requires us to make estimates and assumptions that affect the reported amounts of assets and liabilities, disclosure of contingent assets and liabilities at the date of the consolidated financial statements and the reported amounts of expenses during the reported period. In accordance with GAAP, we base our estimates on historical experience and on various other assumptions that we believe are reasonable under the circumstances. Actual results may differ from these estimates under different assumptions or conditions. There have been no material changes to the critical accounting policies disclosed in our 2023 Annual Report on Form 10-K, except for revenue recognition related to license agreements. Our critical accounting policies are described in the notes to the consolidated financial statements appearing elsewhere in this Quarterly Report on Form 10-Q, 39 Table of Contents. Results of Operations The following table summarizes our results of operations for the periods indicated (in thousands):

	Three months ended June 30, 2024	Six months ended June 30, 2024	2024	2023	2024	2023	Revenues	2024	2023
Product sales, net	\$ 86,520	\$ 46,017	\$ 160,616	\$ 74,586	License revenue	\$ 65,735	Royalty revenue	\$ 646	\$ 683
Total revenues	\$ 1,549	\$ 955	\$ 87,166	\$ 46,700	Operating expenses	\$ 141,276	Cost of revenue (excluding amortization and depreciation)	\$ 8,055	\$ 4,599
Selling, general and administrative	\$ 103,554	\$ 78,935	\$ 202,524	\$ 153,126	Loss in fair value of contingent consideration	\$ 2,160	\$ 6,053	\$ 4	\$ 748
Intangible asset amortization	\$ 1,590	\$ 1,589	\$ 3,179	\$ 3,161	Total operating expenses	\$ 165,212	\$ 111,757	\$ 307,486	\$ 212,707
Loss from operations	\$ (78,046)	\$ (65,077)	\$ (145,321)	\$ (71,431)	Interest expense, net	\$ (1,299)	\$ (2,730)	\$ (4,994)	\$ (79,345)
Income tax benefit (expense)	\$ (76,425)	\$ (76,425)	\$ (76,425)	\$ (76,425)	Net loss	\$ (79,345)	\$ (67,170)	\$ (147,702)	\$ (78,388)
Net loss per common share, basic and diluted	\$ (1.67)	\$ (1.54)	\$ (3.11)	\$ (1.80)	Weighted average common shares outstanding, basic and diluted	47,573,229	43,669,820	47,482,602	43,597,131
Product sales, net	\$ 86,520	\$ 46,017	\$ 160,616	\$ 74,586	License revenue	\$ 65,735	Royalty revenue	\$ 646	\$ 683
Total revenues	\$ 1,549	\$ 955	\$ 87,166	\$ 46,700	Operating expenses	\$ 141,276	Cost of revenue (excluding amortization and depreciation)	\$ 8,055	\$ 4,599
Selling, general and administrative	\$ 103,554	\$ 78,935	\$ 202,524	\$ 153,126	Loss in fair value of contingent consideration	\$ 2,160	\$ 6,053	\$ 4	\$ 748
Intangible asset amortization	\$ 1,590	\$ 1,589	\$ 3,179	\$ 3,161	Total operating expenses	\$ 165,212	\$ 111,757	\$ 307,486	\$ 212,707
Loss from operations	\$ (78,046)	\$ (65,077)	\$ (145,321)	\$ (71,431)	Interest expense, net	\$ (1,299)	\$ (2,730)	\$ (4,994)	\$ (79,345)
Income tax benefit (expense)	\$ (76,425)	\$ (76,425)	\$ (76,425)	\$ (76,425)	Net loss	\$ (79,345)	\$ (67,170)	\$ (147,702)	\$ (78,388)
Net loss per common share, basic and diluted	\$ (1.67)	\$ (1.54)	\$ (3.11)	\$ (1.80)	Weighted average common shares outstanding, basic and diluted	47,573,229	43,669,820	47,482,602	43,597,131

Product sales, net. Avelevity U.S. net sales were \$65.0 million and \$118.4 million for the three and six months ended June 30, 2024, respectively, as compared to \$27.6 million and \$43.3 million for the same periods in 2023. Sunosi net sales were \$21.5 million and \$42.2 million for the three and six months ended June 30, 2024, respectively, as compared to \$18.4 million and \$31.1 million for the same periods in 2023. The increases in both comparable periods were primarily due to the increase in unit sales volume for both Avelevity and Sunosi. The following table summarizes the activity of our sales allowance and reserves as of and for the six months ended June 30, 2024 (in thousands):

	Three months ended June 30, 2024	Six months ended June 30, 2024	2024	2023
Commercial discounts and rebates, returns and other	\$ 4	\$ 748	\$ 37,492	\$ 12,501
Cash discounts and chargebacks	\$ 4	\$ 748	\$ 37,492	\$ 12,501
Medicaid and Medicare rebates	\$ 4	\$ 748	\$ 37,492	\$ 12,501
Total	\$ 4	\$ 748	\$ 37,492	\$ 12,501

Balance at December 31, 2023: \$ 37,492. Balance at June 30, 2024: \$ 48,961. We recognized the upfront payment of \$65.7 million from Pharmanovia as license revenue during the first quarter of 2023. We did not have license revenue during the six months ended June 30, 2024. Royalty revenue. In connection with the February 2023 Pharmanovia License Agreement to commercialize Sunosi in certain ex-U.S. markets, we recognized royalty revenue of \$0.6 million and \$1.5 million for the three and six months ended June 30, 2024, respectively, as compared to \$0.7 million and \$1.0 million for the same periods in 2023 attributable to Pharmanovia sales of Sunosi in the out-licensed markets. 40 Table of Contents. Cost of revenue. Cost of revenue was \$8.1 million and \$14.4 million for the three and six months ended June 30, 2024, respectively, as compared to \$4.6 million and \$12.2 million for the same periods in 2023. The increases in both comparable periods were in line with the increase in sales of Avelevity and Sunosi. Cost of revenue for the six months ended June 30, 2023 includes \$5.0 million in-license revenue sharing expense related to the Pharmanovia License Agreement. Research and development. The following table summarizes our research and development expenses for our primary products for the three and six months ended June 30, 2024 and 2023 (in thousands):

	Three months ended June 30, 2024	Six months ended June 30, 2024	2024	2023
AXS-05	\$ 15,763	\$ 8,352	\$ 29,288	\$ 15,003
AXS-07	\$ 3,973	\$ 1,126	\$ 6,945	\$ 3,105
AXS-12	\$ 3,078	\$ 2,651	\$ 5,124	\$ 4,861
AXS-14	\$ 3,761	\$ 1,638	\$ 6,370	\$ 2,698
Other research and development	\$ 2,573	\$ 1,391	\$ 5,119	\$ 2,469
Stock-based compensation	\$ 5,072	\$ 3,238	\$ 9,640	\$ 5,652
Total research and development expenses	\$ 49,853	\$ 20,581	\$ 86,683	\$ 38,374

Other research and development expenses primarily consist of costs related to other product candidates, facilities and overhead costs. Research and development expenses increased by \$29.3 million and \$48.3 million for the three and six months ended June 30, 2024, respectively, as compared to the same periods in 2023. The increases in both comparable periods were primarily related to the Phase 3 trials for additional indications, including studies in ADHD, MDD, and BED, for solriamfetol, the advancement of ongoing Phase 3 trials of AXS-05 and AXS-12, higher manufacturing costs for AXS-07 and AXS-14, and higher personnel costs due to organizational growth. We expect research and development costs to stabilize as we continue to conduct non-clinical and pre-clinical testing, conduct ongoing and planned clinical trials, and manufacture drug products in anticipation of FDA approvals for the further development of our current and future product candidates. Selling, general and administrative. Selling, general and administrative expenses were \$103.6 million and \$202.5 million for the three and six months ended June 30, 2024, respectively, as compared to \$78.9 million and \$153.1 million for the same periods in 2023. The increases in both comparable periods were primarily

certain intellectual property, and seek to sell additional equity or convertible securities that may result in dilution to our stockholders. If we raise additional funds through the issuance of equity or convertible securities, these securities could have rights or preferences senior to those of our common stock and could contain covenants that restrict our operations. There can be no assurance that we will be able to obtain additional equity or debt financing on terms acceptable to us, if at all. Our future capital requirements will depend on many factors, including: the scope, rate of progress, results, and cost of our clinical studies and other related activities; our ability to enter into collaborative agreements for the development and commercialization of our product candidates; the number and development requirements of any other product candidates that we pursue; the costs, timing, and outcome of regulatory reviews of our product candidates; the costs and timing of our commercialization activities, including product manufacturing, marketing, sales, and distribution, for any of our products and product candidates for which we receive marketing approval; any product liability or other lawsuits related to our product candidates; the expenses needed to attract and retain skilled personnel; the general and administrative expenses related to being a public company; the revenue received from commercial sales of our products and product candidates for which we receive marketing approval; and the costs involved in preparing, filing, and prosecuting patent applications, maintaining and enforcing our intellectual property rights, and defending our intellectual property-related claims. Please see Risk Factors for additional risks associated with our substantial capital requirements.

44 Table of Contents

Contractual Obligations and Commitments

License agreement with Pfizer In January 2020, we entered into a license agreement with Pfizer. Under the terms of our exclusive license agreement with Pfizer, Pfizer received 82,019 shares of our common stock having a stated value of \$8.0 million, based on the average closing price of our common stock for the ten prior trading days of \$97.54, in consideration for the license and rights. Pfizer also received an upfront cash payment of \$3.0 million. We determined that the fair value of each share of common stock granted to Pfizer on the closing date of January 9, 2020 was \$87.24, based on the closing price of our common stock on that date. As a result, the fair value of the stock issued was \$7.2 million. Pfizer can also receive up to \$323 million upon the achievement of certain regulatory and sales milestones, and tiered mid-single to low double-digit royalties on future sales of any such approved clinical products containing compounds reboxetine or esreboxetine. Pfizer will also have a right of first negotiation on any potential future strategic transactions involving AXS-12 and AXS-14. License agreements with Antecip Bioventures Under three exclusive license agreements with Antecip Bioventures II LLC, or Antecip, an entity owned by our Chief Executive Officer and Chairman of the Board, Herriot Tabuteau, M.D., we are obligated to make specified royalty payments ranging from 1.5% to 4.5%, subject to up to a 50% reduction depending on required payments to third parties, on net sales of our products containing the licensed technology of AXS-02, AXS-05, and AXS-04. In connection with the Loan Agreement (see below), Antecip consented to the collateral assignment of one of the license agreements, among other things, under a direct agreement with us and Hercules. May 2023 Fourth Amendment to the Loan and Security Agreement - Hercules On May 8, 2023, we entered into the Waiver and Fourth Amendment to the Loan Agreement, or the Fourth Amendment, with Hercules, in its capacity as administrative agent and collateral agent, and the other financial institutions or entities party thereto as lenders. The Fourth Amendment increased the amount of Cash (as defined in the Loan Agreement) that could be held by Axsome Malta Ltd., or the Malta Subsidiary, outside of the United States from \$3.0 million to \$15.0 million for a 45-day period after the closing of the Fourth Amendment and to \$10.0 million thereafter. The Fourth Amendment also waived any purported default with respect to the amount of cash held by the Malta Subsidiary prior to the date of the Fourth Amendment. In August 2023, Hercules granted Axsome a waiver to the Fourth Amendment, permitting the Malta Subsidiary to hold up to \$12.5 million in Cash outside of the United States until December 31, 2023. January 2023 Third Amendment to the Loan and Security Agreement Hercules On January 9, 2023, we entered into the Third Amendment. The Third Amendment amended the terms of the Loan Agreement to, among other things: Extend the maturity date to January 1, 2028, unless the Company meets certain revenue targets as described in the Loan Agreement, in which case the Company can extend the maturity date to January 1, 2029; Increase the aggregate principal amount under the Loan Agreement from \$300.0 million to \$350.0 million; 45 Table of Contents Subject to the terms and conditions in the Loan Agreement, change the Term Loan Advance amounts and dates available under the Tranche 1 Advance (as defined in the Loan Agreement) through Tranche 5 Advance (as defined in the Loan Agreement), including increasing the Tranche 1 Advance from one tranche of \$95.0 million to five sub-tranches of \$95.0 million, \$55.0 million, \$30.0 million, \$35.0 million and \$35.0 million, respectively, changing the Tranche 2 Advance (as defined in the Loan Agreement) from three sub-tranches of \$35.0 million, \$35.0 million and \$30.0 million to one tranche of \$25.0 million, changing the Tranche 3 Advance (as defined in the Loan Agreement) from two sub-tranches of \$15.0 million and \$5.0 million to one tranche of \$75.0 million, and removing the Tranche 4 Advance (as defined in the Loan Agreement) and Tranche 5 Advance entirely; Revise the interest rate applicable to extensions of credit under the Loan Agreement to equal (a) if the prime rate is greater than or equal to 7.00%, the greater of either (i) the prime rate plus 2.20%, and (ii) 9.95%, but in no event greater than 10.70%, and (b) if the prime rate is less than 7.00%, 9.70%; Increase the minimum cash requirement of the Company to \$30.0 million; and Require the Company to pay a facility fee equal to 0.75% of the amount of principal actually funded pursuant to the Tranche 1B Advance (as defined in the Loan Agreement), Tranche 1C Advance (as defined in the Loan Agreement), Tranche 1D Advance (as defined in the Loan Agreement), Tranche 1E Advance (as defined in the Loan Agreement), Tranche 2 Advance and Tranche 3 Advance. Royalty Agreements Pursuant to the Asset Purchase Agreement, dated as of March 25, 2022, or the Purchase Agreement, we agreed to make non-refundable, non-creditable royalty payments to Jazz equal to (A) high-single digit royalty for any Current Indication or (B) mid-single digit royalty for any Future Indication, of Net Sales in the U.S. Territory made during the applicable Royalty Term (in each case, as those terms are defined in the Purchase Agreement). There are no royalty payments due to Jazz for Net Sales outside of the U.S. Territory. At the initial closing, we assumed all of the commitments of Jazz to SK and Aerial Biopharma, LLC, or Aerial. SK is the originator of Sunosi and retains rights in 12 Asian markets, including China, Korea, and Japan. In 2014, Jazz acquired from Aerial worldwide rights to Sunosi excluding those Asian markets stated previously. The assumed commitments to SK and Aerial include single-digit tiered royalties based on our sales of Sunosi, and we are committed to pay up to \$165.0 million based on revenue milestones and \$1.0 million based on development milestones. World Trade Center Lease On February 21, 2023, we entered into a Sublease with Advance Magazine Publishers d/b/a Conde Nast for the entirety of the twenty-second floor of One World Trade Center in New York, NY, or the Sublease. This space is utilized by the Company for its corporate and executive offices. The Sublease commenced on April 7, 2023 and will run for ten (10) years. The Company has a one-time option to terminate the Sublease on its fifth anniversary upon the payment of a fee to the sublandlord. The Company is responsible for base rent under the Sublease and certain additional customary variable costs such as an allocable portion of building taxes and operating expenses. In connection with the Sublease, the Company received certain rent and work concessions from the sublandlord. 46 Table of Contents

Employees and Human Capital Management

As of July 29, 2024, we had 589 full-time employees. None of our employees are represented by a collective bargaining agreement and we have never experienced any work stoppage. We believe that we maintain good relations with our employees. Our employees are highly skilled, and many hold advanced degrees. Many of our employees have experience with drug commercialization or development. Our future performance depends significantly upon the continued service of our key scientific, technical and senior management personnel and our continued ability to attract and retain highly skilled employees. We provide our employees with competitive salaries and bonuses, opportunities for equity ownership, development programs that enable continued learning and growth and a robust employment package that promotes well-being across all aspects of their lives. In addition to salaries, these programs include potential annual discretionary bonuses, stock awards, healthcare and insurance benefits, health savings and flexible spending accounts, paid time off, family leave, and flexible work schedules, among other benefits. We may take further actions, in compliance with all appropriate government regulations, that we determine to be in the best interest of our employees. Off-Balance Sheet Arrangements We did not have during the periods presented, and we do not currently have, any off-balance sheet arrangements, as defined by applicable SEC regulations. Recent Accounting Pronouncements Refer to Note 2. Summary of Significant Accounting Policies to our consolidated financial statements included in Part I, Financial Information, Item 1, Financial Statements, of this Quarterly Report on Form 10-Q for a discussion of recently issued accounting pronouncements. 47 Table of Contents

ITEM 3. QUANTITATIVE AND QUALITATIVE DISCLOSURE ABOUT MARKET RISK

Interest Rate Risk We are exposed to market risks in the ordinary course of our business. These market risks are principally limited to interest rate fluctuations. We had cash of \$315.7 million and \$386.2 million as of June 30, 2024 and December 31, 2023, respectively. The primary objective of our investment activities is to preserve principal and liquidity while maximizing income without significantly increasing risk. We do not enter into investments for trading or speculative purposes. Due to the short term nature of our investment portfolio and debt agreement, which use short term interest rates and the prime rate, respectively, we do not believe an immediate 100 basis point increase in interest rates would have a material effect on the fair market value of our portfolio, and accordingly, we do not expect our operating results or cash flows to be materially affected by a sudden change in market interest rates. Foreign Currency Exchange Risk We contract with vendors and third-party manufacturers located in Europe and certain invoices are denominated in foreign currencies. Royalty revenues from Pharnanovia are derived from their sales of Sunosi in ex-U.S markets and those sales are denominated in Euros. We are therefore subject to fluctuations in foreign currency rates for the Euro, Swiss Franc, and British Pound, in connection with these agreements, and recognize foreign exchange gains or losses in our statement of operations. We have not historically hedged our foreign currency exchange rate risk. To date, we have not incurred any material effects from foreign currency changes on these transactions. We do not believe a 10% change in these currencies on June 30, 2024 would have had a material effect on our results of operations or financial condition. Inflation Risk Inflation generally affects us by increasing our cost of labor and pricing of contracts. We do not believe that inflation has had a material effect on our business, financial condition, or results of operations during the six months ended June 30, 2024.

ITEM 4. CONTROLS AND PROCEDURES

Disclosure Controls and Procedures. Our management, with the participation of our principal executive officer and our principal financial officer, evaluated, as of the end of the period covered by this Quarterly Report on Form 10-Q, the effectiveness of our disclosure controls and procedures. Based on that evaluation, our principal executive officer and principal financial officer concluded that our disclosure controls and procedures, as of such date, were effective in ensuring that information required to be disclosed by us in the reports that we file or submit under the Securities Exchange Act of 1934, as amended, or the Exchange Act, is recorded, processed, summarized and reported within the time periods specified in the SEC's rules and forms. Disclosure controls and procedures include, without limitation, controls and procedures designed to ensure that information required to be disclosed by us in the reports we file or submit under the Exchange Act is accumulated and communicated to our management, including our principal executive officer and principal financial officer, as appropriate to allow timely decisions regarding required disclosure. Changes in Internal Control over Financial Reporting. During the quarter ended June 30, 2024, there have been no changes in internal controls over financial reporting that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting. 48 Table of Contents

PART II. OTHER INFORMATION

ITEM 1. LEGAL PROCEEDINGS. Except as described herein, we, and our subsidiaries, are currently not a party to, and our property is not currently the subject of, any material pending legal proceedings; however, we may also become involved in various claims and legal actions arising in the ordinary course of business. Securities Class Action On May 13, 2022, Evy Gru filed a putative class action complaint captioned Gru v. Axsome Therapeutics, Inc., et al. in the U.S. District Court for the Southern District of New York, or the SDNY District Court, against the Company and certain of its current and former officers and one director, which we refer to as the Securities Class Action. The complaint asserts claims under Sections 10(b) and 20(a) of the Exchange Act and Rule 10b-5 promulgated thereunder, and alleges, among other things, that the defendants made false statements and omissions concerning the Company's Chemistry Manufacturing and Controls practices, and its NDA with the FDA, with respect to one of its product candidates, AXS-07. The named plaintiff sought unspecified damages, fees, interest, and costs. On August 11, 2022, the SDNY District Court appointed co-lead plaintiffs in the Securities Class Action, one of whom later withdrew. On October 7, 2022, the Securities Class Action plaintiffs filed an amended complaint, which contained substantially similar allegations as in the initial complaint. On September 25, 2023, the SDNY District Court granted defendants' motion to dismiss the amended complaint. On October 13, 2023, plaintiffs' counsel filed a letter seeking leave to file an amended complaint and to substitute new plaintiffs, which defendants opposed. The SDNY District Court re-opened the lead plaintiff appointment process. Thomas Giblin, Paul Berger, and Paul Sutherland moved jointly to be appointed replacement plaintiffs. On January 22, 2024, the SDNY District Court granted that motion and ordered that the case name be changed to In re Axsome Therapeutics, Inc. Securities Litigation. On January 26, 2024, the replacement plaintiffs renewed their request for leave to file a proposed second amended complaint, and, on February 6, 2024, the SDNY District Court granted that request. Plaintiffs filed the second amended complaint on February 7, 2024. On March 11, 2024, the defendants moved to dismiss the second amended complaint. Shareholder Derivative Action On July 21, 2022, Daniel Engel filed a stockholder derivative complaint captioned Engel v. Herriot Tabuteau, et al. in the SDNY District Court against the Company's current directors, certain of the Company's current and former officers, and the Company (as nominal defendant). On January 27, 2023, Kyle Guterba filed a stockholder derivative complaint captioned Guterba v. Tabuteau, et al. in the SDNY District Court against the Company's current directors, certain of the Company's current and former officers, and the Company (as nominal defendant). The derivative complaints arise out of similar allegations as those made in the Securities Class Action. The plaintiffs assert claims for breach of fiduciary duties against all of the defendants and for contribution for violations of Section 10(b) and 21D of the Exchange Act. The plaintiffs seek unspecified damages, fees, interest, and costs, as well as corporate governance changes. The Engel and Guterba matters were consolidated on February 28, 2023 and are currently stayed pending further proceedings in the Securities Class Action.

Auvelity Paragraph IV Litigation

On March 24, 2023, we commenced a patent infringement action against Teva relating to Teva's ANDA for Auvelity. This action is captioned Axsome Therapeutics, Inc. and Antecip Bioventures II LLC v. Teva Pharmaceuticals, Inc. No. 2:23-CV-01695 in the United States District Court for the District of New Jersey, or the NJ District Court. On December 15, 2023, we commenced a second patent infringement action against Teva relating to Teva's ANDA. This action is captioned Axsome Therapeutics, Inc., and Antecip Bioventures II LLC v. Teva Pharmaceuticals, Inc. No. 2:23-cv-23142 in the NJ District Court. On February 26, 2024, the NJ District Court consolidated the actions. Fact discovery is currently scheduled to close on February 7, 2025 in the consolidated action. On May 28, 2024, we commenced a third patent infringement action against Teva relating to Teva's ANDA. This action is captioned Axsome Therapeutics, Inc., and Antecip Bioventures II LLC v. Teva Pharmaceuticals, Inc. No. 2:24-cv-06489 in the NJ District Court. All actions are currently pending. 49 Table of Contents

Sunosi Paragraph IV Litigation

On September 13, 2023, we commenced a patent infringement action against Hikma and five other drug companies relating to each defendant's ANDA for Sunosi. This action is captioned Axsome Malta Ltd. & Axsome Therapeutics, Inc. v. Alkem Laboratories Ltd., et al. No. 2:23-CV-20354 in the NJ District Court. We commenced related patent infringement actions against the defendants relating to their ANDAs on December 20, 2023, January 11, 2024, January 18, 2024, February 14, 2024, March 19, 2024 (2 actions filed), April 5, 2024, and July 2, 2024. Those actions are captioned Axsome Malta Ltd. & Axsome Therapeutics, Inc. v. Unichem Laboratories Ltd. No. 2:23-cv-23255; Axsome Malta Ltd. & Axsome Therapeutics, Inc. v. Hetero USA, Inc. et al. No. 2:24-cv-00196; Axsome Malta Ltd. & Axsome Therapeutics, Inc. v. Aurobindo Pharma USA, Inc. et al. No. 2:24-cv-00309; Axsome Malta Ltd. & Axsome Therapeutics, Inc. v. Sandoz, Inc. No. 2:24-cv-00860; Axsome Malta Ltd. & Axsome Therapeutics, Inc. v. Hetero USA, Inc. et al. No. 2:24-cv-03999; Axsome Malta Ltd. & Axsome Therapeutics, Inc. v. Aurobindo Pharma USA, Inc. et al. No. 2:24-cv-04002; Axsome Malta Ltd. & Axsome Therapeutics, Inc. v. Alkem Laboratories Ltd., et al. No. 2:24-CV-04608; Axsome Malta Ltd. & Axsome Therapeutics, Inc. v. Aurobindo Pharma USA, Inc. et al. No. 2:24-cv-07511, respectively, all of which are in the NJ District Court. On June 4, 2024, Axsome Malta Ltd. and Axsome Therapeutics, Inc. entered into a settlement agreement with Unichem Laboratories Ltd. under which agreement Unichem Laboratories Ltd. agreed not to launch its generic solriamfetol product until June 30, 2042, or earlier under certain circumstances. All other actions are currently pending.

ITEM 1A. RISK FACTORS. The Company is subject to a number of risks that if realized could materially adversely affect its business, results of operations, cash flow, financial condition or prospects. The following is a summary of the principal risk factors facing the Company. The list below is not exhaustive, and the Company faces additional challenges and risks. We have restated and revised our risk factors for material updates for this quarter, where appropriate, from those included in our Annual Report on Form 10-K dated and filed with the SEC on February 23, 2024. Investors should carefully consider all of the information set forth in this Quarterly Report on Form 10-Q, including the following risk factors, before deciding to invest in any of the Company's securities. Risk Factors Summary Our business is subject to a number of risks and uncertainties, including those risks discussed at length below. These risks include, among others, the following: We have incurred significant losses since our inception, anticipate that we will continue to have losses, and may never achieve or maintain profitability. We may need additional funding to conduct our future clinical trials and to complete development and commercialization of our product candidates. If we are unable to raise capital when needed, we would be forced to delay, reduce, or eliminate our product development programs or commercialization efforts. Our operating activities may be restricted as a result of covenants related to the outstanding indebtedness under our loan and security agreement with Hercules and we may be required to repay the outstanding indebtedness in an event of default, which could have a materially adverse effect on our business. We have a limited operating history of commercializing products, which may

make it difficult to evaluate our business and prospects. We are substantially dependent on the success of our products and cannot guarantee that any of our product candidates will successfully complete any planned or ongoing clinical trials, receive regulatory approval, or be successfully commercialized. 50 Table of Contents If safety and efficacy data for our product candidates, a reference drug, or published literature does not satisfactorily demonstrate safety and efficacy to the FDA, or if the FDA and other regulators do not permit us to rely on the data of a reference drug or published literature, we may incur additional costs or experience delays in completing, or ultimately be unable to complete, the development and commercialization of our product candidates. Although Breakthrough Therapy, Fast Track, and other designations are designed to expedite the development and review of drugs, they may not ultimately lead to a faster approval process or faster development of regulatory review, and they will not increase the likelihood that our product candidates will receive marketing approval, for example, Breakthrough Therapy designation by the FDA for AXS-05 for the treatment of AD agitation. We face significant competition from other pharmaceutical and biotechnology companies, academic institutions, government agencies, and other research organizations. Our operating results will suffer if we fail to compete effectively. If we are unable to establish effective marketing, sales and distribution capabilities or enter into agreements with third parties to market, sell and distribute our products, we may be unable to generate substantial product revenues. If any of our products do not achieve broad market acceptance, the revenues that we generate from their sales will be limited. We rely, and expect to continue to rely, on third parties to perform many essential services for our products and product candidates, including services related to our preclinical studies and clinical trials, warehousing and inventory control, distribution, government price reporting, customer service, and adverse event reporting. If these third parties fail to perform satisfactorily, including by failing to meet deadlines for the completion of our preclinical studies and clinical trials, or fail to comply with legal and regulatory requirements, our ability to commercialize any of our products will be significantly impacted and we may be subject to regulatory sanctions. If the manufacturers upon whom we rely fail to produce our products in the volumes that we require on a timely basis, or to comply with stringent regulations applicable to pharmaceutical drug manufacturers, we may face delays in the development and commercialization of, or be unable to meet demand for, our products and may lose potential revenues. Patent reform legislation could increase the uncertainties and costs surrounding the prosecution of our patent applications and the enforcement or defense of our issued patents. We have licensed and may need to license certain intellectual property from third parties in the future. Such licenses may not be available or may not be available on commercially reasonable terms. Our business may be materially harmed if the licenses are not available or terminated for any reason. If we fail to comply with federal, state, and foreign healthcare laws, including fraud and abuse and transparency and health and other data protection, information privacy and security laws, we could face substantial penalties and our business, financial condition, results of operations, and prospects could be adversely affected. If the government or third-party payors fail to provide adequate coverage and payment rates for any of our products, or if health maintenance organization (HMOs) or long-term care facilities choose to use therapies that are less expensive, our revenue and prospects for profitability will be limited. We have and may continue to significantly increase the size of our organization, and we may experience difficulties in managing growth. If we are unable to implement appropriate controls and procedures to manage our growth, we will not be able to implement our business plan successfully. 51 Table of Contents If we fail to maintain an effective system of internal controls over financial reporting, we may not be able to accurately report our financial condition, results of operations or cash flows, which may adversely affect investor confidence in us and, as a result, the value of our common stock. Our principal stockholders and management own a significant percentage of our stock and may be able to exert significant control over matters subject to stockholder approval. The use of our net operating loss carryforwards and research tax credits may be limited. RISKS RELATED TO OUR FINANCIAL CONDITION AND CAPITAL REQUIREMENTS We have incurred significant losses since our inception, anticipate that we will continue to have losses, and may never achieve or maintain profitability. We are a biopharmaceutical company with a limited operating history. Since inception, we have incurred significant operating losses. Our net loss was \$147.7 million and \$78.4 million for the six months ended June 30, 2024 and 2023, respectively. As of June 30, 2024, we had an accumulated deficit of \$983.3 million. In 2022, we commenced the commercial sale of Auvelity in the United States and Sunosi in the United States and select global markets. Apart from Sunosi and Auvelity, we have no other products which have received regulatory approval. We expect to continue to incur substantial expenses and operating losses, as we continue to develop our current and future product candidates. In addition, we expect to incur significant sales, marketing, and manufacturing expenses related to the commercialization of Sunosi, Auvelity, and any other product candidate which may be approved or which we may in-license. We anticipate that our expenses will increase substantially as we: seek regulatory approval for additional product candidates; hire additional commercial, clinical, medical, quality, regulatory, and scientific personnel; add operational, financial, and management information systems and personnel; expand our sales, marketing, and distribution infrastructure; expand external manufacturing capabilities and production to commercialize any additional products for which we may obtain regulatory approval and that we choose not to license to a third party; undertake additional manufacturing activities of our product candidates to satisfy FDA requirements for marketing application submissions; conduct our clinical trials with AXS-05 in AD agitation; continue to evaluate, plan for, and conduct clinical trials for AXS-05 as an aid to smoking cessation treatment and other CNS disorders; continue to evaluate, plan for, and conduct clinical trials for solriamfetol in additional indications; continue to evaluate, plan for, and potentially submit NDAs for AXS-12 in narcolepsy and AXS-14 in fibromyalgia; continue to expand commercial sales of Sunosi and Auvelity; develop, in-license, or acquire additional product candidates; 52 Table of Contents conduct late-stage clinical trials for any product candidates that successfully complete early-stage clinical trials; conduct additional non-clinical studies with any product candidates; and maintain, expand, and protect our intellectual property portfolio. To become and remain profitable, we must succeed in developing (or in-licensing) and commercializing products that generate significant revenue. This will require us to be successful in a range of challenging activities, which may include completing preclinical testing and clinical trials of our product candidates, discovering additional product candidates, potentially entering into collaboration and license agreements, obtaining regulatory approval for product candidates and manufacturing, marketing, and selling any products for which we may obtain regulatory approval, achieving market acceptance of our products, satisfying any post-marketing requirements, maintaining appropriate distribution, setting prices, and obtaining reimbursement for our products from private insurance or government payors. We are only in the preliminary stages of some of these activities with respect to certain products and product candidates. We may never succeed in some of these activities and, even if we do, may never achieve profitability. Because of the numerous risks and uncertainties associated with pharmaceutical product development, we are unable to accurately predict the timing or amount of increased expenses we may incur or when, or if, we will be able to achieve profitability. If we are required by the FDA or comparable foreign regulatory authorities to perform studies in addition to those currently expected, or if there are any delays in completing our clinical trials or the development of any of our product candidates, our expenses could increase. Even if we do achieve profitability, we may not be able to sustain or increase profitability on a quarterly or annual basis. Our failure to become and remain profitable would depress the value of our company and could impair our ability to raise capital, expand our business, maintain our research and development efforts, diversify our product offerings, continue the commercialization of our products or even continue our operations. A decline in the value of our company could also cause you to lose all or part of your investment. We may need additional funding to conduct our future clinical trials and to complete development and commercialization of our product candidates. If we are unable to raise capital when needed, we would be forced to delay, reduce, or eliminate our product development programs or commercialization efforts. Conducting clinical trials, pursuing regulatory approvals, establishing outsourced manufacturing relationships, and successfully manufacturing and commercializing our product candidates is a time-consuming, expensive, and uncertain process that takes years to complete. We may need to raise additional capital to: fund our future clinical trials for our current product candidates, especially if we encounter any unforeseen delays or difficulties in our planned development activities; fund our operations and continue to commercialize our products; qualify and outsource the commercial-scale manufacturing of our products under current good manufacturing practices, or cGMP; develop additional product candidates; and in-license other product candidates. 53 Table of Contents We believe that our current cash is sufficient to fund anticipated operations into cash flow positivity, based on the current operating plan. Our assumptions may prove to be wrong, and we could spend our available financial resources faster than we currently expect. Further, we may not have sufficient financial resources to meet all of our objectives. Our future funding requirements will depend on many factors, including, but not limited to: the rate of progress and costs related to the development of our product candidates, including the costs of preparing filings for regulatory approval; the costs associated with conducting additional clinical and non-clinical studies with any of our product candidates; the potential for delays in our efforts to seek regulatory approval for our product candidates, and any costs associated with such delays; the costs associated with selling, marketing, and distributing our approved products; the costs of filing, prosecuting, defending, and enforcing any patent claims and other intellectual property rights associated with our product candidates; the cost and timing of manufacturing, or having third parties manufacture, sufficient supplies of our product candidates in preparation for commercialization; the effect of competing technological and market developments; revenues from commercial sales of our approved products; the terms and timing of any collaborative, licensing, co-promotion, or other arrangements that we may establish; and the success of the commercialization of any of our current products and, if approved, any of our product candidates. Future capital requirements will also depend on the extent to which we acquire or invest in additional businesses, products, and technologies. Until we can generate a sufficient amount of product revenue, if ever, we may finance future cash needs through public or private equity offerings, debt financings, royalties, and corporate collaboration and licensing arrangements, as well as through interest income earned on cash and investment balances. We cannot be certain that additional funding will be available on acceptable terms, or at all. If adequate funds are not available, we may be required to delay, reduce the scope of, or eliminate one or more of our development programs or our commercialization efforts. 54 Table of Contents Our operating activities may be restricted as a result of covenants related to the outstanding indebtedness under our loan and security agreement with Hercules and we may be required to repay the outstanding indebtedness in an event of default, which could have a materially adverse effect on our business. In September 2020, we entered into a Loan and Security Agreement, or the Loan Agreement, for a term loan, which we refer to as the 2020 Term Loan, with Hercules Capital, Inc., or Hercules, in its capacity as administrative agent and collateral agent and as a lender, and the other financial institutions that from time to time become parties to the Loan Agreement, collectively referred to as the Lenders, secured by a lien on substantially all of our assets, including intellectual property. In October 2021, we entered into a First Amendment to the Loan Agreement to, among other things, increase the size of the 2020 Term Loan. In March 2022, we entered into a Second Amendment to the Loan Agreement that, among other things, changed the terms of the Term Loan Advances (as defined in the Loan Agreement) upon the consummation of the Acquisition (as defined in the Loan Agreement). In January 2023, we entered into the Third Amendment, which amended the terms of the Loan Agreement to, among other things, increase the size of the aggregate principal amount under the 2020 Term Loan from \$300.0 million to \$350.0 million, reduce the interest rate, and extend the maturity and interest-only period of the Loan Agreement. In May 2023, we entered into the Fourth Amendment, which increased the amount of cash that could be held by Axsome Malta Ltd., or the Malta Subsidiary, outside of the United States and waived any purported default with respect to the amount of cash held by the Malta Subsidiary prior to the date of the Fourth Amendment. In August 2023, Hercules granted Axsome a waiver to the Fourth Amendment, increasing the amount of cash that could be held by the Malta Subsidiary outside of the United States until December 31, 2023. The Loan Agreement contains various covenants that limit our ability to engage in specified types of transactions. These covenants limit our ability to, among other things, sell, transfer, lease or dispose of certain assets; incur indebtedness; encumber or permit liens on certain assets; make certain investments; make certain restricted payments, including paying dividends on, or repurchasing or making distributions with respect to, our common stock; and enter into certain transactions with affiliates. Our business may be adversely affected by these restrictions on our ability to operate our business. The covenants under the Loan Agreement also requiring maintaining a minimum amount of cash in an account or accounts in which the Lenders have a first priority security interest. A breach of any of the covenants under the Loan Agreement could result in a default under the 2020 Term Loan. Upon the occurrence of an event of default under the 2020 Term Loan, the Lenders could elect to declare all amounts outstanding, if any, to be immediately due and payable and terminate all commitments to extend further credit. If there are any amounts outstanding that we are unable to repay, the Lenders could proceed against the collateral granted to it to secure such indebtedness. We have a limited operating history of commercializing products, which may make it difficult to evaluate our business and prospects. We are an early-stage commercial company. Prior to our commercialization of Auvelity and Sunosi in 2022, we had not obtained marketing approvals for any product candidates, manufactured products on a commercial scale or arranged for a third party to do so on our behalf, or conducted sales and marketing activities necessary for successful commercialization. Consequently, predictions about our future success or viability may not be as accurate as they would be if we had a longer history of successfully developing and commercializing products. We expect our financial condition and operating results to continue to fluctuate from quarter to quarter and year to year due to a variety of factors, many of which are beyond our control. We have transitioned from a company with solely a research and development focus to a company also capable of undertaking commercial activities. We may encounter unforeseen expenses, difficulties, complications and delays, and may not be successful in such a transition. 55 Table of Contents We are currently operating in a period of economic uncertainty and capital markets disruption, which has been significantly impacted by geopolitical instability. Our business, financial condition and results of operations could be materially adversely affected by any negative impact on the global economy and capital markets resulting from geopolitical tensions. U.S. and global markets are experiencing volatility and disruption following the escalation of geopolitical tensions and the start of the military conflict between Russia and Ukraine. On February 24, 2022, a full-scale military invasion of Ukraine by Russian troops was reported. Although the length and impact of the ongoing military conflict is highly unpredictable, the conflict in Ukraine could lead to market disruptions, including significant volatility in commodity prices, credit and capital markets, as well as supply chain interruptions. We are continuing to monitor the situation in Ukraine and globally and assessing its potential impact on our business. Additionally, the military conflict in Ukraine has led to sanctions and other penalties being levied by the United States, European Union and other countries against Russia. Additional potential sanctions and penalties have also been proposed and/or threatened. Russian military actions and the resulting sanctions could adversely affect the global economy and financial markets and lead to instability and lack of liquidity in capital markets, potentially making it more difficult for us to obtain additional funds. In addition, on October 7, 2023, Hamas militants and members of other terrorist organizations infiltrated Israel's southern border from the Gaza Strip and conducted a series of terror attacks on civilian and military targets. Shortly following the attack, Israel's security cabinet declared war against Hamas, and Israel launched an aerial bombardment of various targets within the Gaza Strip and then also began ground operations in the Gaza Strip, which remain ongoing. It is possible that other terrorist and/or regional organizations will join the hostilities as well, resulting in a widening of the conflict, which could negatively impact the global economy. Furthermore, because of current geopolitical tensions, the Biden administration has recently signed multiple executive orders regarding China. One particular executive order titled Advancing Biotechnology and Biomanufacturing Innovation for a Sustainable, Safe, and Secure American Bioeconomy, signed on September 12, 2022, will likely impact the pharmaceutical industry to encourage U.S. domestic manufacturing of pharmaceutical products. Moreover, there have been Congressional legislative proposals, such as the recent bill titled the Biosecure Act, to discourage contracting with Chinese companies on the development or manufacturing of pharmaceutical products. Any additional executive orders or legislative action regarding or potential sanctions on China could materially impact our current manufacturing partners. Although our business has not been materially impacted by these geopolitical issues, or the U.S. domestic political climate, to date, it is impossible to predict the extent to which our operations, or those of our suppliers and manufacturers, will be impacted in the short and long term, or the ways in which conflicts may impact our business. The extent and duration of military action, sanctions, and resulting market disruptions are impossible to predict, but could be substantial. Any such disruptions may also magnify the impact of other risks described herein. Climate change or legal, regulatory or market measures to address climate change may negatively affect our business, results of operations, cash flows and prospects. We believe that climate change has the potential to negatively affect our business and results of operations, cash flows and prospects. We are exposed to physical risks (such as extreme weather conditions or rising sea levels), risks in transitioning to a low-carbon economy (such as additional legal or regulatory requirements, changes in technology, market risk and reputational risk) and social and human effects (such as population displacements and harm to health and well-being) associated with climate change. These risks can be either acute (short-term) or chronic (long-term). 56 Table of Contents The adverse impacts of climate change include increased frequency and severity of natural disasters and extreme weather events such as hurricanes, tornados, wildfires (exacerbated by drought), flooding, and extreme heat. Extreme weather and sea-level rise pose physical risks to our facilities as well as those of our suppliers. Such risks include losses incurred as a result of physical damage to facilities, loss or spoilage of inventory, and business interruption caused by such natural disasters and extreme weather events. Other potential physical impacts due to climate change include reduced access to high-quality water in certain regions and the loss of biodiversity, which could impact future product

development. These risks could disrupt our operations and its supply chain, which may result in increased costs. New legal or regulatory requirements may be enacted to prevent, mitigate, or adapt to the implications of a changing climate and its effects on the environment. These regulations, which may differ across jurisdictions, could result in us being subject to new or expanded carbon pricing or taxes, increased compliance costs, restrictions on greenhouse gas emissions, investment in new technologies, increased carbon disclosure and transparency, upgrade of facilities to meet new building codes, and the redesign of utility systems, which could increase our operating costs, including the cost of electricity and energy used by us. Our supply chain would likely be subject to these same transitional risks and would likely pass along any increased costs to us.

RISKS RELATED TO OUR BUSINESS AND THE DEVELOPMENT OF OUR PRODUCT CANDIDATES We are substantially dependent on the success of our products and cannot guarantee that any of our product candidates will successfully complete any planned or ongoing clinical trials, receive regulatory approval, or be successfully commercialized. We currently have two products approved for commercial distribution. We have invested a significant portion of our efforts and financial resources in the development of our product candidates. Our business, including our ability to generate revenue, depends entirely on the successful commercialization of Sunosi and Auvelity and the successful development and commercialization of our product candidates and/or future in-licensing activities, which may never occur.

Furthermore, given the nature of our business, the biopharmaceutical industry in general and the uncertainty and costs associated with developing and commercializing our products within a complicated and costly regulatory regime, our goals, plans and assumptions with respect to our products may evolve or change. For example, we may not continue to emphasize, focus our research and development efforts on or direct resources to certain of our product candidates, and we may shift our focus and resources to our other current or future products. Any such change in our business strategy could harm our business, cause uncertainty or confusion in the marketplace or harm the clinical prospects of our products. Our product candidates will require additional clinical and non-clinical development, regulatory approval, commercial manufacturing arrangements, significant marketing efforts, and further investment before we generate any revenues from the sale of such product candidates. Multiple clinical trials are ongoing. As a result of one or more risks discussed in this section, we cannot assure you that we will meet projected timelines related to these trials. We are not permitted to market or promote any of our product candidates before we receive regulatory approval from the FDA or comparable foreign regulatory authorities, and we may never receive such regulatory approval for any of our product candidates. Even if our product candidates are approved, they may be subject to limitations on the indicated uses for which they may be marketed, distribution restrictions, or to other conditions of approval, may contain significant safety warnings, including boxed warnings, contraindications, and precautions, may not be approved with label statements necessary or desirable for successful commercialization, or may contain requirements for costly post-market testing and surveillance, or other requirements, including the submission of a risk evaluation and mitigation strategy, or REMS, to monitor the safety or efficacy of the products. If we do not receive regulatory approval for, and successfully commercialize, our product candidates, we will not be able to generate revenue from these product candidates in the foreseeable future, or at all. Any significant delays in obtaining approval for and commercializing our product candidates will have a material adverse impact on our business and financial condition.

57 Table of ContentsÂ Although we submitted NDAs to the FDA for Auvelity (which was approved) and for AXS-07 for the acute treatment of migraines (which received a CRL and has now been resubmitted), we have not otherwise submitted an NDA to the FDA, or similar drug approval filings to comparable foreign authorities, for any product candidate, and we cannot be certain that our current or future product candidates will be successful in clinical trials or receive regulatory approval. Our product candidates are susceptible to the risks of failure inherent at any stage of product development, including the appearance of unexpected adverse events or failure to achieve its primary endpoints in subsequent clinical trials, including our initiated and planned Phase 3 clinical trials. We conducted one interim analysis for the Phase 2/3 trial of AXS-05 in TRD and one interim analysis for the Phase 2/3 trial of AXS-05 for the treatment of AD agitation. We may elect to conduct interim analyses for our other clinical trials. Interim results of a clinical trial do not necessarily predict final results, and interim results may result in early stoppage of our clinical trials for futility or modifications to our clinical trials, including the addition of additional subjects. Further, our product candidates may not receive regulatory approval even if they are successful in clinical trials. If approved for marketing by applicable regulatory authorities, our ability to generate revenues from our product candidates depend on our ability to: â€¢create market demand for our product candidates through our own marketing and sales activities, and any other arrangements to promote these product candidates that we may otherwise establish; â€¢receive regulatory approval for claims that are necessary or desirable for successful marketing; â€¢hire, train, and deploy a sales force to commercialize our product candidates; â€¢manufacture (or have manufactured by third parties) our product candidates in sufficient quantities and at acceptable quality and manufacturing cost to meet commercial demand at launch and thereafter; â€¢establish and maintain agreements with wholesalers, distributors, and group purchasing organizations on commercially reasonable terms; â€¢create partnerships with, or offer licenses to, third parties to promote and sell our product candidates in foreign markets where we receive marketing approval; â€¢maintain patent and trade secret protection and regulatory exclusivity for our product candidates; â€¢launch commercial sales of our product candidates, whether alone or in collaboration with others; â€¢achieve market acceptance of our product candidates by patients, the medical community, and government and private thirdâ€¢party payors; â€¢achieve appropriate reimbursement for our product candidates; â€¢effectively compete with other therapies; and â€¢maintain a continued acceptable safety profile of our product candidates following launch.

58 Table of ContentsÂ Potential conflicts of interest exist with respect to the intellectual property rights that we license from an entity owned by our Chief Executive Officer and Chairman of the Board, and it is possible that our interests and their interests may diverge. In 2012, we entered into three exclusive license agreements with Antecip Bioventures II LLC, or Antecip, an entity owned by our Chief Executive Officer and Chairman of the Board, Herriot Tabuteau, M.D., in which we were granted exclusive licenses to develop, manufacture, and commercialize Antecipâ€¢s patents and applications related to the development of certain of the Companyâ€¢s then current product candidates. The patents licensed from Antecip include certain intellectual property pertaining to the Companyâ€¢s Auvelity product / AXS-05 portfolio product. Although Dr. Tabuteau dedicates all of his working time to us, because Antecip is an inactive intellectual property holding company, he may face potential conflicts of interest regarding these licensing transactions as a result of his ownership of Antecip. The license agreements provide that, subject to the reasonable consent of Antecip, we have the right to control the prosecution or defense, as the case may require, of a patent infringement claim involving the licensed intellectual property. Our interests with respect to pleadings and settlements in such cases may be at odds with those of Antecip. If there is a dispute between us and Antecip, Dr. Tabuteau will have a conflict of interest because he may, at the time of a prospective dispute, simultaneously have a financial interest in and owe a fiduciary duty to Antecip and simultaneously have a financial interest in and owe a fiduciary duty to us. For example, if a contractual dispute arises between us and Antecip under any of the license agreements we have with Antecip, Dr. Tabuteau may be in a position where he would benefit if Antecip prevails, to the detriment of our business or our investors, even though he is an officer and director of our company, because he is the sole owner of Antecip. Similarly, if we have a claim of any kind against Antecip, Dr. Tabuteau may be, even as our Chief Executive Officer and Chairman of the Board, reluctant to assert a claim by us against Antecip because of his financial interest in Antecip. We cannot assure you that any conflicts will be resolved in our favor, and as a result, our business could be impeded or materially harmed. We may expend our limited resources to pursue a particular product candidate or indication and fail to capitalize on product candidates or indications that may be more profitable or for which there is a greater likelihood of success. Because we have limited financial and managerial resources, we focus on developing product candidates for specific indications that we identify as most likely to succeed, in terms of both its regulatory approval and commercialization. As such, we are currently primarily focused on the development of solriamfetol for additional indications, AXS-05 for the treatment of agitation associated with AD, and smoking cessation, AXS-07 for the acute treatment of migraines, AXS-12 for the treatment of narcolepsy and AXS-14 for the treatment of fibromyalgia. As a result, we may forego or delay pursuit of opportunities with other product candidates or for other indications that may prove to have greater commercial potential. Additionally, as more fully described in

â€¢Businessâ€¢Material License Agreements,â€¢we are required to pay to an entity owned by our Chief Executive Officer and Chairman of the Board certain royalty payments related to the sales of the Companyâ€¢s Auvelity product / AXS-05 portfolio product, as well as two product candidates that are not currently in active development. This may influence managementâ€¢s decision concerning which product candidates or indications to pursue and/or the manner in which our products are commercialized. Our resource allocation decisions may cause us to fail to capitalize on viable commercial products or profitable market opportunities. Our spending on current and future research and development programs and product candidates for specific indications may not yield any commercially viable products. If we do not accurately evaluate the commercial potential or target market for a particular product candidate, we may relinquish valuable rights to that product candidate through collaboration, licensing, or other royalty arrangements in cases in which it would have been more advantageous for us to retain sole development and commercialization rights to such product candidate.

59 Table of ContentsÂ Our future growth may depend on our ability to identify and develop product candidates, and if we do not successfully identify and develop product candidates or integrate them into our operations, we may have limited growth opportunities. A component of our business strategy is to continue to develop a pipeline of product candidates by developing products that we believe are a strategic fit with our focus on central nervous system, or CNS, therapeutics. However, these business activities may entail numerous operational and financial risks, including: â€¢difficulty or inability to secure financing to fund business activities for such development; â€¢disruption of our business and diversion of our managementâ€¢s time and attention; â€¢higher than expected development costs; â€¢exposure to unknown liabilities; â€¢difficulty in managing multiple product development programs; and â€¢inability to successfully develop new products or clinical failure. For instance, our prior efforts have resulted in our decision not to further develop certain product candidates that, at one time, appeared to be promising. Likewise, we received a CRL from the FDA relating to the Companyâ€¢s AXS-07 portfolio product in 2022 (we have since resubmitted the NDA for AXS-07). We have limited resources to identify and execute the development of products. Moreover, we may devote resources to potential development that are never completed, or we may fail to realize the anticipated benefits of such efforts. If we do not successfully develop and commercialize product candidates, we may not be able to obtain revenues from such product candidates in future periods. If safety and efficacy data for our product candidates, a reference drug, or published literature does not satisfactorily demonstrate safety and efficacy to the FDA, or if the FDA and other regulators do not permit us to rely on the data of a reference drug or published literature, we may incur additional costs or experience delays in completing, or ultimately be unable to complete, the development and commercialization of our product candidates. We are not permitted to commercialize, market, promote, or sell any product candidate in the United States without obtaining marketing approval from the FDA. Comparable foreign regulatory authorities, such as the European Medicines Agency, or EMA, impose similar restrictions. In the United States, we currently plan to, at least initially, seek approval of some of our product candidates using the 505(b)(2) pathway. These 505(b)(2) product candidates include AXS-05 and AXS-07. The FDA interprets Section 505(b)(2) of the Federal Food, Drug, and Cosmetic Act, or FDCA, for purposes of approving an NDA, to permit the applicant to rely, in part, upon published literature or the FDAâ€¢s previous findings of safety and efficacy for an approved product. The FDA, though, requires companies to perform additional clinical trials or preclinical studies to support any deviation from the previously approved product and to support reliance on the FDAâ€¢s prior findings of safety and efficacy or published literature. Under the 505(b)(2) pathway, the FDA may approve our product candidates for all or some of the label indications for which the referenced product has been approved, as well as for any new indication sought pursuant to the Section 505(b)(2) process. The label, however, may require all or some of the limitations, contraindications, warnings, or precautions included in the reference productâ€¢s label, including a box warning (commonly referred to as a â€¢black box warningâ€¢), or may require additional limitations, contraindications, warnings, or precautions, including classâ€¢wide warnings. For instance, antidepressants, including Auvelity, include a classâ€¢wide black box warning regarding the increased risk of suicidal thoughts and behavior.

60 Table of ContentsÂ In addition, because we plan to file certain product candidates under an NDA submitted pursuant to 505(b)(2), we will rely, at least in part, upon a reference drug and published literature. For example, we have and/or intend to rely on third-party studies in the published literature as well as FDA findings of safety and efficacy for approved drug products containing the same active molecules in AXS-05 and AXS-07. If the FDA disagrees with our conclusions regarding the appropriateness of our reliance on a reference drug or published literature, we could be required to conduct additional clinical trials or other studies to support our NDA, which could lead to unanticipated costs and delays or to the termination of our development program. If we are unable to obtain approval for our pharmaceutical formulations through the 505(b)(2) NDA process, we may be required to pursue the more expensive and time consuming 505(b)(1) approval process, which consists of full reports of investigations of safety and effectiveness conducted by or for the applicant. In addition, because we have submitted NDAs for AXS-05 and AXS-07 pursuant to the 505(b)(2) process, we have not conducted certain additional clinical trials for these product candidates and, as such, we will have less experience with actual testing of these product candidates. There may also be circumstances under which the FDA would not allow us to pursue a 505(b)(2) application. For instance, should the FDA approve a pharmaceutically equivalent product to our product candidates before we obtain approval, we would no longer be able to use the 505(b)(2) pathway. In that case, it is the FDAâ€¢s policy that the appropriate submission would be an ANDA, for a generic version of the approved product. We may, however, not be able to immediately submit an ANDA or have an ANDA approval made effective, as we could be blocked by othersâ€¢ periods of patent and regulatory exclusivity protection. Notwithstanding the approval of a number of products by the FDA under 505(b)(2) over the last few years, pharmaceutical companies and others have objected to the FDAâ€¢s interpretation of Section 505(b)(2). If the FDAâ€¢s interpretation of Section 505(b)(2) is successfully challenged, the FDA may change its policies and practices with respect to Section 505(b)(2) regulatory approvals, which could delay or even prevent the FDA from approving any NDA that we submit pursuant to the 505(b)(2) process. Moreover, our inability to pursue a 505(b)(2) application could result in new competitive products reaching the market more quickly than our product candidates, which could hurt our competitive position and our business prospects. An NDA submitted under Section 505(b)(2) subjects us to the risk that we may be subject to a patent infringement lawsuit or regulatory actions that would delay or prevent the review or approval of our product candidates. Under the Hatch-Waxman Act, the holder of patents listed in the Orange Book for NDAs that a 505(b)(2) application references may file a patent infringement lawsuit after receiving notice of the paragraph IV certification. Filing of a patent infringement lawsuit against the filer of the 505(b)(2) applicant within 45 days of the patent or NDA ownerâ€¢s receipt of notice triggers a one time, automatic, 30 months stay of the FDAâ€¢s ability to make the 505(b)(2) NDA approval effective. In such a case, the FDA may not make the 505(b)(2) NDA approval effective until the earlier of 30 months from the receipt of the notice of the paragraph IV certification, the expiration of the patent, when the infringement case concerning each such patent was favorably decided in the applicantâ€¢s favor or settled, or such shorter or longer period as may be ordered by a court. Accordingly, we may invest a significant amount of time and expense in the development of one or more product candidates only to be subject to significant delay and patent litigation before such product candidates may be commercialized, if at all. In addition, a 505(b)(2) application approval will not be made effective until any existing non-patent exclusivity, such as exclusivity for obtaining approval of a new chemical entity, or NCE, or exclusivities for changes to NCEs listed in the Orange Book for the referenced product have expired or, if possible, are carved out from the label.

61 Table of ContentsÂ In practice, companies that produce branded reference listed drugs often bring patent litigation against applicants that seek regulatory approval to market generic or reformulated versions of their products. Litigation to enforce or defend intellectual property rights is often complex and often involves significant expense and can delay or prevent introduction or sale of our product candidates. If a court finds patents valid and infringed by our product candidates, we may be required to cease selling, relinquish or destroy existing stock, or pay monetary damages unless we can obtain a license from the patent holder. There may also be situations where we use our business judgment and decide to market and sell our approved products, notwithstanding the fact that allegations of patent infringement have not been finally resolved by the courts, an approach known as an â€¢at risk launch.â€¢ The risk involved in doing so can be substantial because the remedies available to the owner of a patent for infringement may include, among other things, damages measured by the profits lost by the patent owner which may be greater than the profits earned by the infringer. In the case of willful infringement, such damages may be increased up to three times. An adverse decision in patent litigation could have a material adverse effect on our business, financial position, and results of operations and could cause the market value of our common stock to decline. The regulatory approval timelines and processes of the FDA and comparable foreign authorities are lengthy, time consuming, and inherently unpredictable. If we are not able to obtain, or if there are delays in obtaining, required regulatory approvals, we will not be able to commercialize our product candidates as expected, and our ability to generate revenue will be materially impaired. The timeline for review and time required to obtain approval by the FDA and comparable foreign authorities is unpredictable but typically takes many years following the commencement of clinical trials and depends upon numerous factors, including the substantial discretion of the regulatory authorities and the availability and prioritization of regulatory agency resources. The timeline for regulatory approval can be affected by a variety of factors, including budget and funding levels, agency staffing, and statutory, regulatory, and policy changes. In addition, approval policies, regulations, or the type and amount of clinical data necessary to gain approval may change during the course of a product candidateâ€¢s clinical development, vary

among jurisdictions, and/or require us to amend our clinical trial protocols or conduct additional studies that require regulatory or institutional review board, or IRB, approval, or otherwise cause delays in the approval or rejection of an application. To date, we have submitted two NDAs to the FDA and have obtained regulatory approval for one of our product candidates, Auvelity. It is possible that none of our other existing product candidates, or any product candidates we may seek to develop in the future, will ever obtain regulatory approval. Any delay in obtaining or failure to obtain required approvals or uncertainty in the timing of regulatory action could materially adversely impact our development efforts and affect our ability or that of any of our collaborators to generate revenue from the particular product candidate, which likely would result in significant harm to our financial position and adversely impact our stock price. Our products and the activities associated with their development and commercialization, including their design, testing, manufacturing, safety, efficacy, recordkeeping, labeling, storage, approval, advertising, promotion, sale, and distribution, are subject to comprehensive regulation by the FDA and other regulatory agencies in the United States, and by the EMA, in Europe, and similar regulatory authorities outside the United States and Europe. Failure to obtain marketing approval for a product candidate will prevent us from commercializing the product candidate. We have limited experience in filing and supporting the applications necessary to gain marketing approvals and rely on third-party contract research organizations, or CROs, and consultants to assist us in this process. Securing marketing approval requires the submission of extensive preclinical and clinical data and supporting information to regulatory authorities for each therapeutic indication to establish the product candidate's safety and efficacy for that indication and the submission of information about the product manufacturing process to, and inspection of manufacturing facilities and clinical trial sites by, the regulatory authorities. Clinical testing is expensive and can take many years to complete, and its outcome is inherently uncertain. Failure can occur at any time during the clinical trial process. The results of preclinical studies; our product candidate's mechanism of action; studies conducted by third parties in different patient populations, using different products, or using different study designs; and early clinical trials of our product candidates may not be predictive of the results of later-stage clinical trials. Product candidates in later stages of clinical trials may fail to show the desired safety and efficacy traits despite having progressed through preclinical studies and initial clinical trials. Preclinical studies may also reveal unfavorable product candidate characteristics, including safety concerns. A number of companies in the pharmaceutical industry have suffered significant setbacks in advanced clinical trials due to lack of efficacy or adverse safety profiles, notwithstanding promising results in earlier trials. Our future clinical trial results may not be successful. Moreover, should there be a flaw in a clinical trial, it may not become apparent until the clinical trial is well advanced. We may also experience numerous unforeseen events during, or as a result of, clinical trials and in the course of our preparation, submission, and review of NDA filings that could delay or prevent our ability to receive marketing approval or commercialize our product candidates, including: regulators or IRBs may not authorize us or our investigators to commence a clinical trial or conduct a clinical trial at a prospective trial site or amend trial protocols; we may experience delays in reaching, or fail to reach, agreement on acceptable clinical trial contracts or clinical trial protocols with prospective trial sites and our CROs; clinical trials of our product candidates may produce negative or inconclusive results, or our studies may fail to reach the necessary level of statistical or clinical significance, and we may decide, or regulators may require us, to conduct additional clinical trials or abandon product development programs; interim analyses may result in our clinical trials being discontinued for safety or futility reasons or may result in modifications to our clinical trials that prolong the trials or make them difficult and more expensive to complete, such as increases in the number of subjects; the number of patients required for clinical trials of our product candidates may be larger than we anticipate, enrollment in these clinical trials may be slower than we anticipate, or participants may drop out of these clinical trials at a higher rate than we anticipate; our third-party contractors may fail to comply with regulatory requirements or the clinical trial protocol, or meet their contractual obligations to us in a timely manner, or at all, or we may be required to engage in additional clinical trial site monitoring; we, the regulators, or IRBs may require that we or our investigators suspend or terminate clinical research for various reasons, including noncompliance with regulatory requirements or a finding that the participants are being exposed to unacceptable health risks, undesirable side effects, or other unexpected characteristics of the product candidate, or due to findings of undesirable effects caused by a chemically or mechanistically similar drug or drug candidate. We may also discontinue clinical research and programs due to changing business priorities; changes in marketing approval policies during the development period rendering our data insufficient to obtain marketing approval; changes in or the enactment of additional statutes or regulations; changes in regulatory review for each submitted product application; the cost of clinical trials of our product candidates may be greater than we anticipate, or we may have insufficient funds for a clinical trial or to pay the substantial user fees required by the FDA upon the filing of an NDA; 63 Table of Contents the supply or quality of our product candidates or other materials necessary to conduct clinical trials of our product candidates may be insufficient or inadequate; we may decide, or regulators may require us, to conduct additional clinical trials, analyses, reports, data, or preclinical/nonclinical studies than we currently plan, or we may abandon product development programs. For instance, although we believe that we are able to rely on the Phase 2 CONCERT trial and SYMPHONY trial to support an NDA for AXS-12 for the treatment of cataplexy and narcolepsy and the completed Phase 2 trial and Phase 3 trial to support an NDA for AXS-14 for the management of fibromyalgia, the FDA could still require additional studies to support the approval of an NDA for these product candidates. The outcome of our studies may further necessitate additional clinical or preclinical work; we may fail to reach an agreement with regulators regarding the scope or design of our clinical trials; we may have delays in adding new investigators or clinical trial sites, or we may experience a withdrawal of clinical trial sites; patients that enroll in our studies may misrepresent their eligibility or may otherwise not comply with the clinical trial protocol, resulting in the need to drop the patients from the study or clinical trial, increase the needed enrollment size for the study or clinical trial, or extend the study's or clinical trial's duration; there may be regulatory questions regarding interpretations of data and results, or new information may emerge regarding our product candidates; the FDA or comparable foreign regulatory authorities may disagree with our study design or our interpretation of data from preclinical studies and clinical trials or find that a product candidate's benefits do not outweigh its safety risks. For instance, in our communications with the FDA, the FDA has raised questions and had comments regarding our preclinical studies and clinical trials, such as comments on the acceptability of the proposed trial designs for our product candidates, the number of patients planned for our studies, our data analysis plans, the species and doses used in our preclinical studies, and the results of our preclinical studies; the FDA or comparable foreign regulatory authorities may disagree with our belief that certain product attributes are advantageous or may require further study of product attributes that are different than our reference listed drugs. Pharmacokinetic differences between our product candidates and the reference listed drugs, may also make bridging studies more difficult or may prevent us from using the 505(b)(2) pathway. If we are prevented from using the 505(b)(2) pathway, we will need to use the more time consuming and expensive NDA pathway to receive product approval; the FDA or comparable foreign regulatory authorities may not accept data from studies with clinical trial sites in foreign countries; the FDA or comparable foreign regulatory authorities may disagree with our intended indications; the FDA or comparable foreign regulatory authorities may fail to approve or subsequently find fault with the manufacturing processes or our manufacturing facilities for clinical and future commercial supplies; in connection with the CMC data necessary for our NDA filing and approval, we will need to conduct stability studies and provide stability data to establish appropriate retest or expiration dating periods; 64 Table of Contents our product candidates may not demonstrate sufficient long-term stability to support an NDA filing or obtain approval, or the product shelf life may be limited by stability results; there may be delays in the FDA's ability to conduct necessary Pre-Approval Inspections, or PAIs, and more generally the FDA or comparable foreign regulatory authorities may take longer than we anticipate to make a decision on our product candidates; and we may not be able to demonstrate that a product candidate provides an advantage over current standards of care or current or future competitive therapies in development. Moreover, if we are required to conduct additional clinical trials or other testing of our product candidates beyond that which we currently contemplate, if we are unable to successfully complete clinical trials or other testing of our product candidates, if the results of these trials or tests are not positive, or are only modestly positive or if there are safety concerns, we may: be delayed in obtaining marketing approval for our product candidates; not obtain marketing approval at all; obtain approval for indications or patient populations that are not as broad as intended or desired or are not covered by our intellectual property; obtain approval with labeling that includes significant use or distribution restrictions, including restrictions on the intended patient population, or safety warnings, including boxed warnings, contraindications, and precautions, or may not include label statements necessary or desirable for successful commercialization; be subject to additional post-marketing testing and surveillance requirements, including REMS; or have the product removed from the market after obtaining marketing approval. Our product candidate development costs will also increase if we experience delays in testing or approvals and we may not have sufficient funding to complete the testing and approval process for any of our product candidates. We may be required to obtain additional funds to complete clinical trials and prepare for possible commercialization of our product candidates. We do not know whether any additional preclinical tests or clinical trials will be required, will begin as planned, will need to be restructured, or will be completed on schedule, or at all. Significant delays relating to any preclinical studies or clinical trials also could shorten any periods during which we may have the exclusive right to commercialize our product candidates or allow our competitors, or the competitors of our collaborators, to bring products to market before we do and impair our ability to successfully commercialize our product candidates and may harm our business and results of operations. In addition, many of the factors that cause, or lead to, such delays may ultimately lead to the denial of marketing approval of any of our product candidates. If any of this occurs, our business, financial condition, results of operations, and prospects may be materially harmed. Regulatory authorities have substantial discretion in the approval process and may refuse to accept any application or may decide that our data are insufficient for approval and require additional preclinical studies, clinical trials, or other studies. In addition, varying interpretations of the data obtained from preclinical and clinical testing could delay, limit, or prevent marketing approval of a product candidate. During the course of review, the FDA may also request or require additional CMC, or other data and information, and the development and provision of these data and information may be time consuming and expensive. For example, in the CRL with respect to our NDA for AXS-07, the FDA noted the need for additional CMC data. Furthermore, there is the possibility that the FDA or comparable foreign regulatory authorities have not previously reviewed product candidates for the indications we are pursuing, such as AD agitation or smoking cessation. As a result, we may experience delays in regulatory approval due to uncertainties in the approval process. 65 Table of Contents If we experience delays in obtaining approval, if we fail to obtain approval of a product candidate or if the label for a product candidate does not include the labeling claims necessary or desirable for the successful commercialization of that product candidate, the commercial prospects for such product candidate may be harmed and our ability to generate revenues from that product candidate will be materially impaired. Furthermore, there is the possibility that the FDA or comparable foreign regulatory authorities have not previously reviewed product candidates for the indications we are pursuing, such as AD agitation or smoking cessation. As a result, we may experience delays in regulatory approval due to uncertainties in the approval process. If we cannot demonstrate an acceptable safety and toxicity profile for our product candidates, we will not be able to continue our clinical trials or to obtain approval for those product candidates. In order to obtain approval of a product candidate we must demonstrate safety in various nonclinical tests (including, for example, carcinogenicity studies, drug-drug interaction studies, and toxicity studies), in addition to human clinical trials. At the time of initiating human clinical trials, we may not have conducted or may not conduct all the types of nonclinical testing ultimately required by regulatory authorities, or future nonclinical tests may indicate safety concerns regarding our product candidates. Nonclinical testing and clinical testing are both expensive and time-consuming and have uncertain outcomes. Even if initial tests appear favorable, later testing may have unfavorable results. We may experience numerous unforeseen events during, or as a result of, the testing process, which could delay or prevent our ability to develop or commercialize our product candidates, including: our preclinical or nonclinical testing may produce inconclusive or negative safety results, which may require us to conduct additional nonclinical testing or to abandon product candidates; our product candidates may have unfavorable pharmacology or toxicity characteristics or suggest possible drug-drug interaction; our product candidates may cause undesirable side effects; and the FDA or other regulatory authorities may determine that additional safety testing is required. Any such events would increase our costs and could delay or prevent our ability to commercialize our product candidates, which could adversely impact our business, financial condition and results of operation. The FDA may determine that any of our current or future product candidates have undesirable side effects that could delay or prevent their regulatory approval or commercialization. Undesirable side effects caused by our product candidates could cause us, IRBs, and other reviewing entities or regulatory authorities to interrupt, delay, or halt clinical trials and could result in a more restrictive label or the delay or denial of regulatory approval by the FDA or other comparable foreign authorities. For example, if concerns are raised regarding the safety of a new drug as a result of undesirable side effects identified during clinical or preclinical testing, the FDA may order us to cease further development, decline to approve the drug, or issue a letter requesting additional data or information prior to making a final decision regarding whether or not to approve the drug. The number of requests for additional data or information issued by the FDA in recent years has increased and resulted in substantial delays in the approval of several new drugs. Undesirable side effects caused by any of our current or future product candidates could also result in denial of regulatory approval by the FDA or other comparable foreign authorities for any or all targeted indications or the inclusion of unfavorable information in our product labeling, such as limitations on the indicated uses for which the products may be marketed or distributed, a label with significant safety warnings, including boxed warnings, contraindications, and precautions, a label without statements necessary or desirable for successful commercialization, or may result in requirements for costly post-marketing testing and surveillance, or other requirements, including REMS, to monitor the safety or efficacy of the products, and in turn prevent us from commercializing and generating revenues from the sale of any of our current or future product candidates. 66 Table of Contents Based on the side effects disclosed in FDA product labeling for marketed drugs that contain the same active molecules as our product candidate, AXS-07 may result in fatigue, confusion, dry mouth, diarrhea, nausea, insomnia, anemia, increased appetite, anxiety, sweating, dizziness, palpitations, arrhythmia, tachycardia, abnormal vision, syncope, seizure, tremor, tinnitus, dizziness, somnolence, paresthesia, dysgeusia, dyspepsia, constipation, weight increase or decrease, gastritis, hematuria, flatulence, esophagitis, gastric ulcers, gastroesophageal reflux, gastrointestinal hemorrhages, colitis, rash, pain or tightness in the chest, neck, throat or jaw, upper respiratory tract infections, influenza-like symptoms, or other adverse events or potential adverse events reported or discussed in the product labels for meloxicam containing or rizatriptan-containing products including Anjeso, Vivlodex, Mobic, and Maxalt. Based on the side effects disclosed in the EMA required product label for marketed drugs that contain the same active molecule as our product candidate, AXS-12 and AXS-14 may result in decreased appetite, insomnia, agitation, anxiety, dizziness, headache, paresthesia, akathisia, dysgeusia, accommodation disorder, mydriasis, glaucoma, vertigo, tachycardia, palpitations, vasodilation, hypotension, hypertension, dry mouth, vomiting, hyperhidrosis, rash, sensation of incomplete bladder emptying, urinary tract infection, dysuria, urinary retention, erectile dysfunction, ejaculatory pain, ejaculatory delay, chills, or other adverse events or potential adverse events reported or discussed in the product labels for reboxetine containing products including Edronax. Known side effects for Auvelity and Sunosi are described on the approved labels for those products. In relation to further development efforts with respect to these compounds, different patient populations may react to these compounds differently. For example, AD agitation patients in the case of AXS-05 or ADHD patients in the case of solriamfetol may experience different side effects than patients taking these products for their currently approved indications. This is particularly true where different dosing, formulations or methods of administration are implicated. If any of our other product candidates are associated with serious adverse events or undesirable side effects or have properties that are unexpected, we may need to abandon development or limit development of that product candidate to certain uses or subpopulations in which the undesirable side effects or other characteristics are less prevalent, less severe, or more acceptable from a risk-benefit perspective. The drug-related side effects could affect patient recruitment or the ability of enrolled patients to complete the trial or result in potential product liability claims. Any of these occurrences may significantly harm our business, financial condition, results of operations, and prospects. If we experience delays or difficulties in the enrollment of patients in clinical trials, our receipt of necessary regulatory approvals could be delayed or prevented. We may not be able to initiate or continue conducting clinical trials for our product candidates if we are unable to locate and enroll a sufficient number of eligible patients to participate in these trials as required by the FDA or similar regulatory authorities outside the United States. Some of our competitors have ongoing clinical trials for product candidates that treat the same indications as our product candidates, and patients who would otherwise be eligible for our clinical trials may instead enroll in clinical trials of our competitors' product candidates. Patient enrollment is affected by other factors including: the size and nature of the patient population; the severity of the disease under investigation; the eligibility criteria for, and design of, the clinical trial in question, including factors such as frequency of required assessments, length of the study, and ongoing monitoring requirements; the perceived risks and benefits of the product candidate under study, including the potential advantages or disadvantages of the product candidate being studied in relation to other available therapies; competition in recruiting and enrolling patients in clinical trials; 67 Table of Contents the efforts to facilitate timely enrollment in clinical trials; the

patient referral practices of physicians; effectiveness of publicity created by clinical trial sites regarding the trial; patients’ ability to comply with the specific instructions related to the trial protocol, proper documentation, and use of the drug product; inability to obtain or maintain patient informed consents; risk that enrolled patients will drop out before completion; the ability to identify patients for enrollment and maintain a sufficient level of patient participants in our clinical studies; the ability to monitor patients adequately during and after treatment; and the proximity and availability of clinical trial sites for prospective patients. Our inability to enroll a sufficient number of patients for our clinical trials would result in significant delays which would cause us to miss our projected timelines and could require us to abandon one or more clinical trials altogether. For instance, because we are seeking regulatory approval for certain indications that may have a narrow or small patient population, it may be difficult to find patients eligible to participate in our clinical studies at a sufficient rate or in a sufficient quantity. We may be required by the FDA to modify the entry criteria for our planned Phase 3 clinical trials and these changes may make it more difficult to enroll patients in our clinical trials. Moreover, patients in our clinical trials, especially patients in our control groups, may be at risk for dropping out of our studies if they are not experiencing relief of their symptoms. A significant number of withdrawn patients would compromise the quality of our data. Enrollment delays or slower periods of enrollment in our clinical trials may result in increased development costs for our product candidates, or the inability to complete development of our product candidates, which would cause the value of our company to decline, limit our ability to obtain additional financing, and materially impair our ability to generate revenues. Development of combination product candidates may present more or different challenges than development of single agent product candidates. Certain product candidates of ours, including AXS-05 and AXS-07, are combination therapies. A combination therapy is a single drug product that consists of two or more active ingredients, with each component making a contribution to the claimed effect of the drug. The development of combination drugs may be more complex than the development of single agent products and generally requires that sponsors demonstrate the contribution of each component to the claimed effect and the safety and efficacy of the product as a whole. This requirement may make the design and conduct of clinical trials more complex, requiring more clinical trial subjects. We also may not be able to meet the FDA’s approval standards required for combination products. The FDA’s requirements concerning combination products may change in the future. Moreover, the applicable requirements for approval may differ from country to country. 68 Table of Contents 68 Changes in product candidate manufacturing or formulation may result in additional costs or delay. As product candidates are developed through preclinical studies to late-stage clinical trials towards approval and commercialization, it is common that various aspects of the development program, such as manufacturing methods and formulation, are altered along the way in an effort to optimize processes and results. For instance, as we begin scale-up efforts for commercial-size manufacturing batches, formulation changes may be necessary to improve tablet robustness. Such changes carry the risk that they will not achieve these intended objectives. Any of these changes could cause our product candidates to perform differently and affect the results of planned clinical trials or other future clinical trials conducted with the altered materials. Such changes may also require additional testing, FDA notification, or FDA approval. This could delay completion of clinical trials; require the conduct of bridging clinical trials or studies, or the repetition of one or more clinical trials; increase clinical trial costs; delay approval of our product candidates; and jeopardize our ability to commence product sales and generate revenue. Failure to obtain marketing approval in international jurisdictions would prevent our products from being marketed abroad. In order to market and sell our products in the European Union, or EU, and many other jurisdictions, we or our third-party collaborators must obtain separate marketing approvals and comply with numerous and varying regulatory requirements. The approval procedure varies among countries and can involve additional testing. The time required to obtain approval may differ substantially from that required to obtain FDA approval. The regulatory approval process outside the United States generally includes all of the risks associated with obtaining FDA approval. In addition, in many countries outside the United States, it is required that the product be approved for reimbursement before the product can be approved for sale in that country. We or these third parties may not obtain approvals from regulatory authorities outside the United States on a timely basis, if at all. Approval by the FDA does not ensure approval by regulatory authorities in other countries or jurisdictions, and approval by one regulatory authority outside the United States does not ensure approval by regulatory authorities in other countries or jurisdictions or by the FDA. However, the failure to obtain approval in one jurisdiction may compromise our ability to obtain approval elsewhere. We may not be able to file for marketing approvals and may not receive necessary approvals to commercialize our products in any market. Although Breakthrough Therapy, Fast Track, and other designations are designed to expedite the development and review of drugs, they may not ultimately lead to a faster approval process or faster development of regulatory review, and they will not increase the likelihood that our product candidates will receive marketing approval, for example, Breakthrough Therapy designation by the FDA for AXS-05 for the treatment of AD agitation. We have received a Fast Track product designation for AXS-05 for both the treatment of TRD as well as for the treatment of AD agitation, and we may seek Fast Track designation for other of our current or future product candidates. The FDA may designate a product for Fast Track review if it is intended, whether alone or in combination with one or more other products, for the treatment of a serious or life-threatening disease or condition, and it demonstrates the potential to address unmet medical needs for such a disease or condition. For Fast Track products, sponsors may have greater interactions with the FDA, and the FDA may initiate review of sections of a Fast Track product’s application before the application is complete. This rolling review may be available if the FDA determines, after preliminary evaluation of clinical data submitted by the sponsor, that a Fast Track product may be effective. The sponsor must also provide, and the FDA must approve, a schedule for the submission of the remaining information, and the sponsor must pay applicable user fees. 69 Table of Contents 69 We also received Breakthrough Therapy designation for AXS-05 for both the treatment of MDD and the treatment of AD agitation, and we may seek Breakthrough Therapy designation for other current or future product candidates. A Breakthrough Therapy is defined as a product candidate that is intended, alone or in combination with one or more other drugs, to treat a serious or life-threatening disease or condition, and preliminary clinical evidence indicates that the product candidate may demonstrate substantial improvement over existing therapies on one or more clinically significant endpoints, such as substantial treatment effects observed early in clinical development. For product candidates that have been designated as breakthrough therapies, interaction and communication between the FDA and the sponsor of the trial can help to identify the most efficient path for clinical development while minimizing the number of patients placed in ineffective control regimens. Breakthrough Therapy designation also allows the sponsor to request a Priority Review or file sections of the NDA on an ongoing basis for rolling review where the FDA may consider beginning review portions of a marketing application before the full submission is complete. Product candidates designated as Breakthrough Therapies by the FDA are also eligible for Priority Review if supported by clinical data at the time of the submission of the NDA. Breakthrough Therapy or Fast Track designation is within the discretion of the FDA. The receipt of a Breakthrough Therapy or Fast Track designation for a product candidate may not ultimately result in a faster development process or review, and it does not in any way assure approval of product candidates by the FDA. In addition, the FDA may later decide to rescind the Breakthrough Therapy or Fast Track designation for one or more of our applicable product candidates if such product candidates no longer meet the conditions for qualification of this program. For example, we were initially granted Breakthrough Therapy designation for AXS-12 for the treatment of cataplexy in patients with narcolepsy in August 2020. In July 2021, the FDA rescinded our Breakthrough Therapy designation due to the FDA approving an additional drug product for the treatment of cataplexy in narcolepsy. Regulatory approval is limited by the FDA or comparable foreign regulatory authorities to those specific indications and conditions for which clinical safety and efficacy have been demonstrated, and we may be subject to fines, penalties, injunctions, or other enforcement actions if we are determined to be promoting the use of our products for unapproved or off-label uses, resulting in damage to our reputation and business. We, and any of our collaborators, must comply with requirements concerning advertising and promotion for any of our products for which we or they obtain marketing approval. Promotional communications with respect to prescription drugs are subject to a variety of legal and regulatory restrictions and continuing review by the FDA, Department of Justice, HHS’s Office of Inspector General, state attorneys general, members of Congress, and the public. When the FDA or comparable foreign regulatory authorities issue regulatory approval for a product candidate, the regulatory approval is limited to those specific uses and indications for which a product is approved. If we are not able to obtain FDA approval for any desired uses or indications for our products and product candidates, we may not market or promote our products for those indications and uses, referred to as off-label uses, and our business may be adversely affected. We further must be able to sufficiently substantiate any claims that we make for our products including claims comparing our products to other companies’ products. While physicians may choose to prescribe drugs for uses that are not described in the product’s labeling and for uses that differ from those tested in clinical studies and approved by the regulatory authorities, we are prohibited from marketing and promoting the products for indications and uses that are not specifically approved by the FDA or comparable foreign regulatory authorities. These off-label uses are common across medical specialties and may constitute an appropriate treatment for some patients in varied circumstances. Regulatory authorities in the United States and in many other major markets do not generally restrict or regulate the behavior of physicians in their choice of treatment within the practice of medicine. Regulatory authorities do, however, restrict communications by pharmaceutical companies concerning off-label use. 70 Table of Contents 70 If we are found to have impermissibly promoted any of our products, we may become subject to significant liability and government fines. The FDA and other agencies actively enforce the laws and regulations regarding product promotion, particularly those prohibiting the promotion of off-label uses, and a company that is found to have improperly promoted a product may be subject to significant sanctions. The federal government has levied large civil and criminal fines against companies for alleged improper promotion and has enjoined several companies from engaging in off-label promotion. The FDA has also requested that companies enter into consent decrees of permanent injunctions under which specified promotional conduct is changed or curtailed. Thus, we and any of our collaborators will not be able to promote any products we develop for indications or uses for which they are not approved. In the United States, engaging in the impermissible promotion of our products, following approval, for off-label uses can also subject us to false claims and other litigation under federal and state statutes, including fraud and abuse and consumer protection laws, which can lead to civil and criminal penalties and fines, agreements with governmental authorities that materially restrict the manner in which we promote or distribute drug products and do business through, for example, corporate integrity agreements, suspension or exclusion from participation in federal and state healthcare programs, and debarment from government contracts and refusal of future orders under existing contracts. Recent court decisions have impacted the FDA’s enforcement activity regarding off-label promotion in light of First Amendment considerations; however, there are still significant risks in this area in part due to the potential False Claims Act exposure. The False Claims Act allows any individual to bring a lawsuit against a pharmaceutical company on behalf of the federal government alleging submission of false or fraudulent claims, or causing others to present such false or fraudulent claims, for payment by a federal program such as Medicare or Medicaid. If the government decides to intervene and prevails in the qui tam lawsuit, the individual will share in the proceeds from any fines or settlement funds. If the government declines to intervene, the individual may pursue the case alone. Under the False Claims Act, a penalty may be imposed for each false claim, for example, a claim for payment for each prescription for the product, and, when aggregated, these penalties often total millions of dollars and incentivize qui tam lawsuits. These False Claims Act lawsuits against pharmaceutical companies have increased significantly in volume and breadth, leading to several substantial civil and criminal settlements, up to \$3.0 billion, pertaining to certain sales practices and promoting off-label drug uses. This growth in litigation has increased the risk that a pharmaceutical company will have to defend a false claim action; pay settlement fines or restitution, as well as criminal and civil penalties; agree to comply with burdensome reporting and compliance obligations; and be excluded from Medicare, Medicaid, or other federal and state healthcare programs. If we or our collaborators do not lawfully promote our approved products, if any, we may become subject to such litigation and, if we do not successfully defend against such actions, those actions may have a material adverse effect on our business, financial condition, results of operations, and prospects. In the United States, the distribution of product samples to physicians must further comply with the requirements of the U.S. Prescription Drug Marketing Act. If the FDA determines that our promotional materials or activities violate its regulations and policies pertaining to product promotion, it could request that we modify our promotional materials or activities or subject us to regulatory or other enforcement actions, including issuance of warning letters or untitled letters, suspension or withdrawal of an approved product from the market, requests for recalls, payment of civil fines, disgorgement of money, imposition of operating restrictions, injunctions, or criminal prosecution. These regulatory and enforcement actions could significantly harm our business, financial condition, results of operations, and prospects. 71 Table of Contents 71 We are, and will continue to be subject to, ongoing obligations and continued regulatory review, which may result in significant additional expense. Additionally, any of our products, could be subject to labeling and other restrictions and market withdrawal and we may be subject to penalties if we fail to comply with regulatory requirements or experience unanticipated problems with our products. Our product(s) are subject to extensive and ongoing requirements of and review by the FDA and other regulatory authorities, including requirements related to the manufacturing processes, post approval clinical data, labeling, packaging, distribution, adverse event reporting, storage, recordkeeping, export, import, advertising, marketing, and promotional activities for such product. These requirements further include submissions of safety and other post-marketing information, including manufacturing deviations and reports; registration and listing requirements; the payment of annual program fees for our products; continued compliance with cGMP requirements relating to manufacturing, quality control, quality assurance, and corresponding maintenance of records and documents; requirements regarding the distribution of samples to physicians and recordkeeping; and GCP, for any clinical trials that we conduct post approval. We and any of our collaborators, including our contract manufacturers, could be subject to periodic unannounced inspections by the FDA to monitor and ensure compliance with cGMP and GCP. Application holders must further notify the FDA, and depending on the nature of the change, obtain FDA pre-approval for product and manufacturing changes. Application fees may apply to certain changes. In addition, later discovery of previously unknown adverse events or that the drug is less effective than previously thought or other problems with our products, manufacturers, or manufacturing processes, or failure to comply with regulatory requirements both before and after approval, may yield various results, including: restrictions on manufacturing or distribution, or marketing of such products; restrictions on the labeling, including required additional warnings, such as black box warnings, contraindications, precautions, and restrictions on the approved indication or use; modifications to promotional pieces; requirements to conduct post-marketing studies or clinical trials; clinical holds or termination of clinical trials; requirements to establish or modify a REMS or a comparable foreign authority may require that we establish or modify a similar strategy, that may, for instance, require us to create or modify a medication guide outlining the risks of the previously unidentified side effects for distribution to patients, or restrict distribution of the product, if and when approved, and impose burdensome implementation requirements on us; changes to the way the drug is administered; liability for harm caused to patients or subjects; reputational harm; the drug becoming less competitive; warning or untitled letters; suspension of marketing or withdrawal of the products from the market; regulatory authority issuance of safety alerts, Dear Healthcare Provider letters, press releases, or other communications containing warnings or other safety information about the drug; 72 Table of Contents 72 refusal to approve pending applications or supplements to approved applications that we submit; recall of products; fines, damages, restitution, or disgorgement of profits or revenues; suspension or withdrawal of marketing approvals; refusal to permit the import or export of our products; product seizure or detention; FDA debarment, debarment from government contracts, and refusal of future orders under existing contracts, exclusion from federal healthcare programs, consent decrees, or corporate integrity agreements; or injunctions or the imposition of civil or criminal penalties, including imprisonment. Any of these events could prevent us from achieving or maintaining market acceptance of the particular products, or could substantially increase the costs and expenses of commercializing such product, which in turn could delay or prevent us from generating significant revenues from its sale. Any of these events could further have other material and adverse effects on our operations and business and could adversely impact our stock price and could significantly harm our business, financial condition, results of operations, and prospects. The FDA’s policies may change and additional government regulations may be enacted that could prevent, limit, or delay regulatory approval of our product candidates or that could impose additional regulatory obligations on our products. If we are slow or unable to adapt to changes in existing requirements or the adoption of new requirements or policies, or if we are not able to maintain regulatory compliance, we may lose any marketing approval that we may have obtained and be subject to regulatory enforcement action. Should any of the above actions take place, they could adversely affect our ability to achieve or sustain profitability. Further, the cost of compliance with post-approval regulations may have a negative effect on our operating results and financial condition. A variety of risks associated with international operations could materially adversely affect our business. We are, and may become party to further agreements, pursuant to which we out-license our products outside of the United States. The Company also currently markets Sunosi in Canada. We expect that we will be subject to additional risks related to entering into international business relationships, including: different regulatory requirements for approval of drugs in foreign countries; the potential for so-called parallel importing, particularly within Europe, which is what happens when a local seller, faced with high or higher local prices, opts to import goods from a foreign market (with low or lower prices) rather than buying them locally with EU laws supporting such free movement of goods

within the EU; â€œstricter harmonized EU rules on data privacy particularly in relation to health data than is the case in the United States which are being further toughened with the EU General Data Protection Regulation, or the GDPR, which became enforceable beginning May 25, 2018; â€œchallenges enforcing our contractual and intellectual property rights, especially in those foreign countries that do not respect and protect intellectual property rights to the same extent as the United States; 73 Table of Contentsâ€ â€œunexpected changes in tariffs, trade barriers, and regulatory requirements and in the health care policies of foreign jurisdictions; â€œeconomic weakness, including inflation, or political instability in particular foreign economies and markets; â€œcompliance with tax, employment, immigration, and labor laws for employees living or traveling abroad; â€œforeign taxes, including withholding of payroll taxes; â€œforeign currency fluctuations, which could result in increased operating expenses and reduced revenues, and other obligations incident to doing business in another country; â€œdifficulties staffing and managing foreign operations; â€œworkforce uncertainty in countries where labor unrest is more common than in the United States and worker rights tend to be stronger; â€œcosts of compliance with U.S. laws and regulations for foreign operations, including the Foreign Corrupt Practices Act or comparable foreign regulations, and the risks and costs of noncompliance; â€œproduction shortages resulting from any events affecting raw material supply or manufacturing capabilities abroad; and â€œbusiness interruptions resulting from geopolitical actions, including war and terrorism, or natural disasters including earthquakes, typhoons, floods, and fires. These and other risks associated with our international operations may materially adversely affect our ability to attain or maintain profitable operations. We will need to obtain FDA approval (and that of comparable foreign regulatory authorities) of any proposed product names, and any failure or delay associated with such approval may adversely affect our business. Any name we intend to use for our product candidates will require approval from the FDA regardless of whether we have secured a formal trademark registration from the U.S. Patent and Trademark Office, or USPTO. The FDA typically conducts a review of proposed product names, including an evaluation of the potential for confusion with other product names. The FDA may also object to a product name if it believes the name inappropriately implies medical claims or contributes to an overstatement of efficacy. If the FDA objects to any of our proposed product names, we may be required to adopt alternative names for our product candidates. If we adopt alternative names, we would lose the benefit of any existing trademark applications for such product candidate and may be required to expend significant additional resources in an effort to identify a suitable product name that would qualify under applicable trademark laws, not infringe the existing rights of third parties, and be acceptable to the FDA. We may be unable to build a successful brand identity for a new trademark in a timely manner or at all, which would limit our ability to commercialize our product candidates. 74 Table of Contentsâ€ RISKS RELATED TO THE COMMERCIALIZATION OF OUR PRODUCTS We face significant competition from other pharmaceutical and biotechnology companies, academic institutions, government agencies, and other research organizations. Our operating results will suffer if we fail to compete effectively. The development and commercialization of new drug products is highly competitive. We face competition with respect to our current products and product candidates and will face competition with respect to any product candidates that we may seek to develop or commercialize in the future, from major pharmaceutical companies, specialty pharmaceutical companies, and biotechnology companies worldwide. There are a number of large pharmaceutical and biotechnology companies that currently market and sell products or are pursuing the development of products for the treatment of CNS disorders. Potential competitors also include academic institutions, government agencies, and other public and private research organizations that conduct research, seek patent protection, and establish collaborative arrangements for research, development, manufacturing, and commercialization. Specifically, there are a large number of companies developing or marketing therapies for CNS disorders, including many major pharmaceutical and biotechnology companies. Among the companies that currently market or are developing therapies that, if approved, our product candidates would potentially compete with include: AbbVie Inc.; Amgen Inc.; Avadel Pharmaceuticals plc; Biogen Inc.; Eli Lilly and Company; H. Lundbeck A/S; Harmony Biosciences; Intra-Cellular Therapies, Inc.; Janssen; Jazz; Otsuka Pharmaceutical Co. Ltd.; Pfizer Inc.; Relmada Therapeutics Inc.; Sage Therapeutics, Inc.; and Takeda Pharmaceutical Company Limited. Our commercial opportunities could be reduced or eliminated if our competitors develop and commercialize products that are safer, are more effective, have fewer or less severe side effects, are more convenient, or are less expensive than any products that we may develop. Our competitors also may obtain FDA or other regulatory approval for their products more rapidly than we may obtain approval for ours, which could result in our competitors establishing a strong market position before we are able to enter the market. In addition, our ability to compete may be affected in many cases by insurers or other thirdâ€party payors seeking to encourage the use of generic products or therapeutically similar lower cost brands. If our product candidates achieve marketing approval, we expect that they will be priced at a significant premium over competitive generic products, which would further impact our commercialization efforts. Generic forms of the active ingredients of our product candidates, including dextromethorphan, bupropion, meloxicam, rizatriptan, and reboxetine, are available in the United States and abroad and could be used off-label. Any such off-label use could adversely affect our profitability and have a negative effect on our operating results and financial condition. For example, even though meloxicam is not currently approved for the treatment of acute migraine, we would not be able to prevent a physician from prescribing it for such treatment. Nor could we prevent a payor from offering favorable coverage for such product and disadvantaging our product candidates, even if the generics would be used off-label. Many of the companies against which we are competing or against which we may compete in the future have significantly greater financial resources and expertise in research and development, manufacturing, preclinical testing, conducting clinical trials, obtaining regulatory approvals, and marketing approved products than we do. Mergers and acquisitions in the pharmaceutical and biotechnology industries may result in even more resources being concentrated among a smaller number of our competitors. Early-stage companies may also prove to be significant competitors, particularly through collaborative arrangements with, or acquisition by large and established companies. These third parties compete with us in recruiting and retaining qualified scientific and management personnel and establishing clinical trial sites and patient registration for clinical trials, as well as in acquiring technologies complementary to, or necessary for, our programs. 75 Table of Contentsâ€ If the FDA or comparable foreign regulatory authorities approve generic or similar versions of any of our products that receive marketing approval, or such authorities do not grant our products appropriate periods of exclusivity before approving generic or similar versions of our products, the sales of our products could be adversely affected. Once an NDA is approved, the covered product becomes a â€œreference listed drugâ€ in the FDAâ€â€™s Orange Book. Manufacturers may seek approval of generic versions of reference listed drugs through submission of ANDAs in the United States. In support of an ANDA, a generic manufacturer need not conduct full clinical studies. Rather, the applicant generally must show that its product has the same active ingredient(s), dosage form, strength, route of administration, and conditions of use or labeling, among other commonalities, as the reference listed drug and that the generic version is bioequivalent to the reference listed drug, meaning it is absorbed in the body at the same rate and to the same extent. For example, in February 2023, we received a paragraph IV certification notice letter from Teva providing notification to the Company that Teva has submitted an ANDA to the FDA seeking approval to manufacture, use, or sell a generic version of Auvelity. Additionally, beginning in August 2023, we received paragraph IV certification notice letters from six other pharmaceutical companies providing notification to the Company that each such filer has submitted an ANDA to the FDA seeking approval to manufacture, use, or sell a generic version of Sunosi. Recently, the FDA and Congress have also taken steps to encourage increased generic drug competition in the market. Generic products may be significantly less costly to bring to market than the reference listed drug and companies that produce generic products are generally able to offer them at lower prices and are generally preferred by thirdâ€party payors. Thus, following the introduction of a generic drug, a significant percentage of the sales of any branded product or reference listed drug is typically lost to the generic product. Moreover, in addition to generic competition, we could face competition from other companies seeking approval of drug products that are similar to ours using the 505(b)(2) pathway. Such applicants may be able to rely on our products, or other approved drug products or published literature to develop drug products that are similar to ours. The introduction of a drug product similar to our product candidates could expose us to increased competition. Further, if we do not file a patent infringement lawsuit against a generic manufacturer within 45 days of receiving notice of its paragraph IV certification, the ANDA or 505(b)(2) applicant may not be subject to a 30â€month stay. Litigation or other proceedings to enforce or defend intellectual property rights are often very complex in nature, may be expensive and time consuming, may divert our managementâ€â€™s attention from our core business, and may result in unfavorable results that could adversely impact our ability to prevent third parties from competing with our products. Accordingly, we may be subject to generic competition or competition from similar products, or may need to commence patent infringement proceedings, which would divert our resources. Competition that our products may face from generic or similar versions of our products could materially and adversely impact our future revenue, profitability, and cash flows and substantially limit our ability to obtain a return on the investments we have made in our product candidates. AXS-12 received Orphan Drug Designation from the FDA. However, there is no guarantee that we will receive this designation for any of our other product candidates or receive or maintain any corresponding benefits for any of our other product candidates that may receive Orphan Drug Designation in the future, including periods of exclusivity. AXS-12 received Orphan Drug Designation from FDA for the treatment of narcolepsy. We may also seek Orphan Drug Designation for our other products, as appropriate. 76 Table of Contentsâ€ Orphan Drug Designation, however, may be lost if the indications for which we develop any of our future product candidates do not meet the orphan drug criteria. Moreover, following product approval, orphan drug exclusivity may be lost if the FDA determines, among other reasons, that the request for designation was materially defective or if the manufacturer is unable to assure sufficient quantity of the product to meet the needs of patients with the rare disease or condition. Even if we obtain orphan drug exclusivity for any of our current or future product candidates, that exclusivity may not effectively protect the product from competition because different products can be approved for the same condition. Even after an orphan product is approved, the FDA can subsequently approve a product containing the same principal molecular features for the same condition if the FDA concludes that the later product is clinically superior in that it is shown to be safer or more effective or makes a major contribution to patient care. The FDA or the EMA may grant orphan exclusivity to two different sponsors for the same compound or active molecule and for the same indication. For example, if another sponsor receives FDA approval for a reboxetine containing product for the treatment of narcolepsy before we obtain FDA approval for AXS-12 for the treatment of narcolepsy, we would be prevented from launching our product in the United States for this indication for a period of at least 7 years. If another sponsor receives EMA approval for a reboxetine containing product for the treatment of narcolepsy before we obtain EMA approval for AXS-12 for the treatment of narcolepsy, we would be prevented from launching our product in the EU for this indication for a period of at least 10 to 12 years. The FDA may undertake a reevaluation of aspects of its orphan drug regulations and policies at any time and may possibly do so in response to a recent court decision regarding the plain meaning of the exclusivity provision of the Orphan Drug Act. We do not know if, when, or how the FDA may change the orphan drug regulations and policies, and it is uncertain how any changes might affect our business. Depending on what changes the FDA may make to its orphan drug regulations and policies, our business, financial condition, results of operations, and prospects could be harmed. If we are unable to establish effective marketing, sales and distribution capabilities or enter into agreements with third parties to market, sell and distribute our products, we may be unable to generate substantial product revenues. We recently expanded our commercial infrastructure for the marketing, sale, and distribution of pharmaceutical products, which included the creation of a sales force to launch our commercial stage products throughout the United States. This requires additional compliance with a range of federal and state laws. Additionally, we currently commercialize Sunosi outside the United States. Each global market we commercialize Sunosi in has its own set of applicable laws. We have limited experience in the marketing, sale, and distribution of pharmaceutical products, and there are significant risks involved in the building and managing of a commercial infrastructure. We have to compete with other pharmaceutical and biotechnology companies to recruit, hire, train, manage, and retain marketing and sales personnel. In the event we are unable to maintain our marketing and sales infrastructure, we may not be able to successfully commercialize any of our existing commercial stage products or future product candidates, which would limit our ability to generate revenue. Factors that may inhibit our efforts to commercialize any of our products on our own include: â€œour inability to recruit, train, manage, and retain adequate numbers of effective sales and marketing personnel; â€œthe inability of sales personnel to obtain access to physicians or persuade adequate numbers of physicians to prescribe any of our current or future product candidates; â€œour inability to effectively oversee a geographically dispersed sales and marketing team; â€œthe application of federal and state drug distribution and supply chain requirements to our business; 77 Table of Contentsâ€ â€œthe costs associated with training sales and marketing personnel on legal and regulatory compliance matters and monitoring their actions; â€œan inability to secure adequate coverage and reimbursement by government and private health plans; â€œthe clinical indications and labeled claims for which the product is approved; â€œlimitations or warnings, including distribution or use restrictions, contained in the productâ€â€™s approved labeling; â€œany distribution and use restrictions imposed by the FDA or to which we agree as part of a mandatory REMS or voluntary risk management plan; â€œliability for sales or marketing personnel who fail to comply with the applicable legal and regulatory requirements; â€œthe lack of complementary products to be offered by sales personnel, which may put us at a competitive disadvantage relative to companies with more extensive product lines; and â€œunforeseen costs and expenses associated with creating an independent sales and marketing organization or engaging a contract sales organization. If additional product candidates are approved, we may incur expenses prior to product launch in expanding our sales force and compliant marketing and sales infrastructure. If a commercial launch is delayed as a result of FDA requirements or other reasons, we may incur these expenses prior to being able to realize any revenue from sales of such product candidate(s). Furthermore, our sales force and marketing teams may not be successful in commercializing any of our current or future product candidates. If any of our products do not achieve broad market acceptance, the revenues that we generate from their sales will be limited. Our products, and, if approved, our product candidates, may not gain acceptance among physicians, patients, third-party payors, and others in the medical community. If any of our products or product candidates, for which we obtain regulatory approval, do not gain an adequate level of market acceptance, we may not generate significant product revenues or become profitable. Market acceptance of any of our products by the medical community, patients, and third-party payors will depend on a number of factors, some of which are beyond our control. For example, physicians are often reluctant to switch their patients from existing therapies even when new and potentially more effective or convenient treatments enter the market. Further, patients often acclimate to the therapy that they are currently taking and do not want to switch unless their physicians recommend switching products or they are required to switch therapies due to lack of reimbursement for existing therapies. Even if physicians prescribe our products, third-party payors may not consider them cost effective without a significant price concession, which could negatively impact our revenue. Third-party payors may also implement onerous access controls, which could further impede our efforts to effectively transition eligible patients to our therapies. Efforts to educate the medical community and third-party payors on the benefits of our products may require significant resources and may not be successful. If any of our product candidates is approved but does not achieve an adequate level of market acceptance, we may not generate significant revenues and we may not become profitable. The degree of market acceptance of any of our products will depend on a number of factors, including: â€œthe efficacy of our products; â€œthe prevalence and severity of adverse events associated with such product; â€œthe clinical indications for which the product is approved and the approved claims that we may make for the product; 78 Table of Contentsâ€ â€œlimitations or warnings contained in the productâ€â€™s FDAâ€â€™s approved labeling, including potential limitations or warnings for such product candidate, that may be more restrictive than other competitive products; â€œchanges in the standard of care for the targeted indications for such product candidate, which could reduce the marketing impact of any claims that we could make following FDA approval, if obtained; â€œthe relative convenience and ease of administration of such product; â€œcost of treatment versus economic and clinical benefit in relation to alternative treatments or therapies; â€œthe availability of adequate coverage or reimbursement by third parties, such as insurance companies and other healthcare payors, and by government healthcare programs, including Medicare and Medicaid; â€œthe willingness of third-party payors to prefer similar but less expensive products even if not approved for our productâ€â€™s indication; â€œthe extent and strength of our marketing and distribution of such product; â€œthe safety, efficacy, and other potential advantages over, and availability of, alternative treatments already used or that may later be approved for any of our intended indications; â€œdistribution and use restrictions imposed by the FDA with respect to such product or to which we agree as part of a mandatory risk evaluation and mitigation strategy or voluntary risk management plan; â€œthe timing of market introduction of such product, as well as competitive products; â€œour ability to offer such product candidate for sale at competitive prices, including prices that are competitive with generic products; â€œthe willingness of the target patient population to try new therapies and of physicians to prescribe these therapies; â€œthe extent and strength of our thirdâ€party manufacturer and supplier support; â€œthe approval of other new products for the same indications; â€œadverse publicity about the product or favorable publicity about competitive products; and â€œpotential product liability claims. Our efforts to educate the medical community and thirdâ€party payors on the benefits of our products may require significant resources and may never be successful. Even if the medical community accepts that one of our product candidates is safe and effective for its approved indications, physicians and patients may not immediately be receptive to such product candidate and may be slow to adopt it as an accepted treatment of the approved indication. It is unlikely that any labeling approved by the FDA will contain claims that one of our product candidates is safer or more effective than competitive products or will permit us to promote such product

candidate as being superior to competing products. 79 Table of Contents

The potential market opportunities for our products and/or product candidates are difficult to precisely estimate. Our estimates of the potential market opportunities are predicated on many assumptions including industry knowledge and publications, third-party research reports, and other surveys. While we believe that our internal assumptions are reasonable, these assumptions involve the exercise of significant judgment on the part of our management and are inherently uncertain, and the reasonableness of these assumptions has not been assessed by an independent source. If any of the assumptions proves to be inaccurate, the actual markets for our product candidates could be smaller than our estimates of the potential market opportunities. We face potential product liability exposure, and if successful claims are brought against us, we may incur substantial liability and may have to limit our products' commercialization. The use of any of our current or future product candidates in clinical trials, and the sale of any of our products exposes us to the risk of product liability claims. We face inherent risk of product liability related to the testing of our product candidates in human clinical trials and face an even greater risk for our commercialized products. For example, we may be sued if any products we develop allegedly causes injury or is found to be otherwise unsuitable during clinical testing, manufacturing, marketing, or sale. Any such product liability claims may include allegations of defects in manufacturing, defects in design, a failure to warn of dangers inherent in the product, negligence, strict liability or a breach of warranties. Claims could also be asserted under state consumer protection acts. Product liability claims might be brought against us by consumers, healthcare providers, or others using, administering, or selling our products. If we cannot successfully defend ourselves against these claims, we will incur substantial liabilities or be required to limit commercialization of our products. Even successful defense would require significant financial and management resources. Regardless of merit or eventual outcome, liability claims may result in loss of revenue from including from: decreased demand for our products; impairment of our business reputation or financial stability; costs of related litigation; substantial monetary awards to patients or other claimants; diversion of management attention; loss of revenues; withdrawal of clinical trial participants and potential termination of clinical trial sites or entire clinical programs; the inability to commercialize our product candidates; significant negative media attention; decrease in our stock price; initiation of investigations and enforcement actions by regulators; and product recalls, withdrawals, or labeling, marketing, or promotional restrictions. 80 Table of Contents

We have obtained limited product liability insurance coverage for our products and our clinical trials. We have also obtained local policies in those foreign jurisdictions where it was appropriate. However, our insurance coverage may not reimburse us or may not be sufficient to reimburse us for any expenses or losses we may suffer. Moreover, insurance coverage is becoming increasingly expensive, and, in the future, we may not be able to maintain insurance coverage at a reasonable cost or in sufficient amounts to protect us against losses due to liability. On occasion, large judgments have been awarded in class action lawsuits based on drugs that had unanticipated side effects. A successful product liability claim or series of claims brought against us could cause our stock price to fall and, if judgments exceed our insurance coverage, could decrease our cash and adversely affect our business and our prospects. Sunosi is a controlled substance and may be subject to U.S. federal and state controlled substance laws and regulations, and our failure to comply with these laws and regulations, or the cost of compliance with these laws and regulations, could materially and adversely affect our business, results of operations, financial condition and growth prospects. Sunosi contains controlled substances as defined in the Federal Controlled Substances Act, or CSA. Controlled substances are subject to a number of requirements and restrictions under the CSA and implementing regulations, including certain registration, security, recordkeeping, reporting, import, export and other requirements administered by the U.S. Drug Enforcement Administration, or DEA. The DEA classifies controlled substances into five schedules: Schedule I, II, III, IV or V substances. Schedule I substances by definition have a high potential for abuse, no currently accepted medical use in the U.S., lack accepted safety for use under medical supervision, and may not be prescribed, marketed or sold in the U.S. Pharmaceutical products approved for use in the U.S. which contain a controlled substance are listed as Schedule II, III, IV or V, with Schedule II substances considered to present the highest potential for abuse or dependence and Schedule V substances the lowest relative risk of abuse among such substances. Schedule I and II drugs are subject to the strictest controls under the CSA, including manufacturing and procurement quotas, heightened security requirements and additional criteria for importation. In addition, dispensing of Schedule II drugs is further restricted. For example, they may not be refilled without a new prescription. Sunosi is a Schedule IV controlled substance. Individual states have also established controlled substance laws and regulations. Though state-controlled substances laws often mirror federal law, they may separately schedule our products or our product candidates as well. We or our partners may also be required to obtain separate state registrations, permits or licenses in order to be able to manufacture, distribute, administer or prescribe controlled substances for clinical trials or commercial sale, and failure to meet applicable regulatory requirements could lead to enforcement and sanctions by the states in addition to those from the DEA or otherwise arising under federal law. U.S. facilities conducting research, manufacturing, distributing, importing or exporting, or dispensing controlled substances must be registered (licensed) to perform these activities and must comply with the security, control, recordkeeping and reporting obligations under the CSA, DEA regulations and corresponding state requirements. DEA and state regulatory bodies conduct periodic inspections of certain registered establishments that handle controlled substances. Obtaining and maintaining the necessary registrations and complying with the regulatory obligations may result in delay of the importation, manufacturing, distribution or clinical research of our products and product candidates. Furthermore, failure to maintain compliance with the CSA and DEA and state regulations by us or any of our contractors, distributors or pharmacies can result in regulatory action that could have a material adverse effect on our business, financial condition and results of operations. DEA and state regulatory bodies may seek civil penalties, refuse to renew necessary registrations, or initiate proceedings to restrict, suspend or revoke those registrations. In certain circumstances, violations could lead to criminal penalties. Any penalties imposed by the DEA to us or our third-party manufacturers which could have a material adverse effect on our business, results of operations, financial condition and growth prospects. 81 Table of Contents

RISKS RELATED TO OUR DEPENDENCE ON THIRD PARTIES

We rely, and expect to continue to rely, on third parties to perform many essential services for our products and product candidates, including services related to our preclinical studies and clinical trials, warehousing and inventory control, distribution, government price reporting, customer service, and adverse event reporting. If these third parties fail to perform satisfactorily, including by failing to meet deadlines for the completion of our preclinical studies and clinical trials, or fail to comply with legal and regulatory requirements, our ability to commercialize any of our products will be significantly impacted and we may be subject to regulatory sanctions. We rely on third parties to conduct, supervise, and monitor our preclinical studies and certain clinical trials for our product candidates and do not currently plan to independently conduct preclinical studies or clinical trials of any other potential product candidates. We expect to continue to rely on third parties, such as CROs, clinical data management organizations, medical institutions, and clinical investigators, to conduct our preclinical studies and clinical trials. While we have agreements governing their activities, we have limited influence over their actual performance and control only certain aspects of their activities. The failure of these third parties to successfully carry out their contractual duties or meet expected deadlines could substantially harm our business because we may not obtain marketing approval for or commercialize our product candidates in a timely manner or at all. Moreover, these agreements might terminate for a variety of reasons, including a failure to perform by the third parties. If we need to enter into alternative arrangements, that could delay our product development activities and adversely affect our business. Our reliance on these third parties for development activities will reduce our control over these activities. Nevertheless, we are responsible for ensuring that each of our studies is conducted in accordance with the applicable protocol, legal, regulatory, and scientific standards and our reliance on third parties does not relieve us of our regulatory responsibilities. For example, we will remain responsible for ensuring that each of our clinical trials is conducted in accordance with the general investigational plan and protocols for the trial and for ensuring that our preclinical trials are conducted in accordance with good laboratory practice, or GLP, as appropriate. Moreover, the FDA and comparable foreign regulatory authorities require us to comply with standards, such as GCP for conducting, monitoring, recording, and reporting the results of clinical trials to assure that data and reported results are credible and accurate and that the rights, integrity, and confidentiality of trial participants are protected. As a clinical trial sponsor, we also have regulatory requirements that directly apply to us. Regulatory authorities enforce these requirements through periodic inspections of trial sponsors, clinical investigators, and trial sites. If we or any of the third parties we engage fail to comply with applicable GCP, we or those third parties may be subject to enforcement or other legal actions, the clinical data generated in our clinical trials may be deemed unreliable and the FDA or comparable foreign regulatory authorities may require us to perform additional clinical trials. In addition, when we submit an NDA for review, we are required to report certain financial interests of our third-party investigators if these relationships exceed certain financial thresholds or meet other criteria. The FDA and comparable foreign regulatory authorities may question the integrity of the data from those clinical trials conducted by investigators who previously served or currently serve as scientific advisors or consultants to us from time to time and receive cash compensation in connection with such services or otherwise receive compensation from us that could be deemed to impact study outcome, proprietary interests in a product candidate, certain company equity interests, or significant payments of other sorts. We cannot assure you that upon inspection by a given regulatory authority, such regulatory authority will determine that any of our clinical trials complies with GCP regulations. In addition, our clinical trials must be conducted with product candidates that were produced under cGMP regulations. Our failure to comply with these regulations may require us to repeat clinical trials, which would delay the regulatory approval process. We also are required to register certain clinical trials and post the results of certain completed clinical trials on a government sponsored database, ClinicalTrials.gov, within specified timeframes. Failure to do so or to meet the related submission requirements can result in enforcement actions, including civil monetary penalties and adverse publicity. 82 Table of Contents

Third parties we engage to conduct research may also have relationships with other entities, some of which may be our competitors, for whom they may also be conducting clinical trials or other drug development activities that could harm our competitive position. In addition, these third parties are not our employees, and except for remedies available to us under our agreements with such third parties, we cannot control whether or not they devote sufficient time and resources to our ongoing clinical, non-clinical, and preclinical programs. If these third parties do not successfully carry out their contractual duties, meet expected deadlines or conduct our preclinical studies or clinical trials in accordance with regulatory requirements or our stated protocols, if they need to be replaced or if the quality or accuracy of the clinical data they obtain is compromised due to the failure to adhere to our clinical protocols or regulatory requirements or for other reasons, our clinical trials may be extended, delayed, or terminated and we may not be able to obtain, or may be delayed in obtaining, marketing approvals for our product candidates and will not be able to, or may be delayed in our efforts to, successfully commercialize our product candidates, or we or they may be subject to regulatory enforcement actions. As a result, our results of operations and the commercial prospects for our product candidates would be harmed, our costs could increase and our ability to generate revenues could be delayed. To the extent we are unable to successfully identify and manage the performance of third-party service providers in the future, our business may be materially and adversely affected. If any of our relationships with these third parties terminates, we may not be able to enter into arrangements with alternative resources or to do so on commercially reasonable terms. Switching or adding additional third parties involves additional cost and requires management time and focus. In addition, there is a natural transition period when a new third party commences work. As a result, delays could occur, which could compromise our ability to meet our desired development timelines. Though we carefully manage our relationships with these third-party vendors, there can be no assurance that we will not encounter similar challenges or delays in the future or that these delays or challenges will not have a material adverse impact on our business, financial condition and prospects, and results of operations. If the manufacturers upon whom we rely fail to produce our products in the volumes that we require on a timely basis, or to comply with stringent regulations applicable to pharmaceutical drug manufacturers, we may face delays in the development and commercialization of, or be unable to meet demand for, our products and may lose potential revenues. We do not manufacture any of our products, and we do not currently plan to develop any capacity to do so. We currently outsource all manufacturing of our products to third parties typically without any guarantee that there will be sufficient supplies to fulfill our requirements or that we may obtain such supplies on acceptable terms. Any delays in obtaining adequate supplies with respect to our products may delay or disrupt the development or commercialization of our products. Moreover, we do not yet in all cases have agreements established regarding commercial supply of our product candidates, and we may not be able to establish or maintain commercial manufacturing arrangements on commercially reasonable terms for any of our current or future product candidates for which we obtain approval in the future. We may not succeed in our efforts to establish manufacturing relationships or other alternative arrangements for any of our existing or future products and programs. Our products may compete with other products and product candidates for access to manufacturing facilities. There are a limited number of manufacturers that operate under cGMP regulations and that are both capable of manufacturing for us and willing to do so. If our existing third-party manufacturers, or the third parties that we engage in the future to manufacture a product for commercial sale or for our clinical trials, should cease to continue to do so for any reason, we likely would experience delays in obtaining sufficient quantities of our product for us to meet commercial demand or to advance our clinical trials while we identify and qualify replacement suppliers. If for any reason we are unable to obtain adequate supplies of our products or the drug substances used to manufacture them, it will be more difficult for us to develop our products and compete effectively. Further, even if we do establish such collaborations or arrangements, our third-party manufacturers may breach, terminate, or not renew these agreements. 83 Table of Contents

Any problems or delays we experience in preparing for commercial-scale manufacturing of a product candidate may result in a delay in FDA approval of the product candidate or may impair our ability to manufacture commercial quantities or such quantities at an acceptable cost, which could result in the delay, prevention, or impairment of clinical development and commercialization of our product candidates and could adversely affect our business. For example, our manufacturers will need to produce specific batches of our product candidates to demonstrate acceptable stability under various conditions and for commercially viable lengths of time. We and our contract manufacturers will need to demonstrate to the FDA and other regulatory authorities that this is acceptable stability data for our product candidates, as well as validate methods and manufacturing processes, in order to receive regulatory approval to commercialize any of our current or future product candidates. Furthermore, if our commercial manufacturers fail to deliver the required commercial quantities of bulk drug substance or finished product on a timely basis and at commercially reasonable prices, we would likely be unable to meet demand for our products and we would lose potential revenues. We have a limited number of contract manufacturers for our products. At times we may have only one manufacturer for a product. In addition, we do not have any long-term commitments from our suppliers of clinical trial material or guaranteed prices for our product candidates. The manufacture of pharmaceutical products requires significant expertise and capital investment, including the development of advanced manufacturing techniques and process controls. Manufacturers of pharmaceutical products often encounter difficulties in production, particularly in scaling up initial production. These problems include difficulties with production costs and yields; quality control, including stability of the product candidate and quality assurance testing; shortages of qualified personnel; and compliance with strictly enforced federal, state, and foreign regulations. Our manufacturers may not perform as agreed. If our manufacturers were to encounter any of these difficulties, our ability to provide product candidates to patients in our clinical trials and for commercial use, if approved, would be jeopardized. In addition, all manufacturers of our products must comply with cGMP requirements enforced by the FDA and comparable foreign regulatory authorities that are applicable to both finished drug products and active pharmaceutical ingredients used both for clinical and commercial supply, through its facilities inspection program. The FDA must verify our contract manufacturers' compliance with cGMP requirements and comparable foreign regulatory authorities will similarly inspect our contract manufacturers' facilities after we submit our marketing applications to the agency and comparable foreign regulatory authorities. The cGMP requirements include quality control, quality assurance, and the maintenance of records and documentation. Manufacturers of our products may be unable to comply with our specifications, these cGMP requirements and with other FDA, state, and foreign regulatory requirements. If our contract manufacturers cannot successfully manufacture material that conforms to our specifications and the strict regulatory requirements of the FDA or other regulatory authorities, they will not be able to secure or maintain regulatory approval for their manufacturing facilities. While we are ultimately responsible for the manufacture of our products, other than through our contractual arrangements, we have little control over our manufacturers' compliance with these regulations and standards. If the FDA or a comparable foreign regulatory authority does not approve these facilities for the manufacture of our products or if it withdraws any such approval in the future, we may need to find alternative manufacturing facilities, which would significantly impact our ability to develop or market our products, or obtain regulatory approval for, our product candidates. A failure to comply with these requirements may result in regulatory enforcement actions against our manufacturers or us, including fines and civil and criminal penalties, including imprisonment; suspension or restrictions of production; suspension, delay, or denial of product approval or supplements to approved products; clinical holds or termination of clinical studies; warning or untitled letters; regulatory authority communications warning the public about safety issues with the drug; refusal to permit the import or export of the products; product seizure, detention, or recall; suits under the civil False Claims Act; corporate integrity agreements; consent decrees; or withdrawal of product approval. If the safety of any quantities supplied is compromised due to our manufacturers' failure to adhere to applicable laws or for other reasons, we may not be

able to obtain regulatory approval for our product candidates or successfully commercialize our products. Any failure or refusal to supply our products or components for our current or future product candidates that we may develop could delay, prevent, or impair our clinical development or commercialization efforts. Any change in our manufacturers could be costly because the commercial terms of any new arrangement could be less favorable and because the expenses relating to the transfer of necessary technology and processes could be significant. 84 Table of Contents

As an NDA applicant and commercial ~~“~~virtual manufacturer~~”~~, we may rely in many cases on third parties to perform many essential services for our products, including services related to warehousing and inventory control, distribution, government price reporting, customer service, and adverse event reporting. If these third parties fail to perform as expected or to comply with legal and regulatory requirements, our ability to commercialize any of our products will be significantly impacted and we may be subject to regulatory sanctions. We have retained third-party service providers to perform a variety of functions related to the sale and distribution of our products, key aspects of which are out of our direct control. These service providers provide key services related to warehousing and inventory control, distribution, government price reporting, and customer service, and, as a result, much of our inventory is stored at a single warehouse maintained by one such service provider. We substantially rely on this service provider as well as other third-party providers that perform services for us, including entrusting our inventories of products to their care and handling. If these third-party service providers fail to comply with applicable laws and regulations, fail to meet expected deadlines, or otherwise do not carry out their contractual duties to us, or encounter physical or natural damage at their facilities, our ability to deliver product to meet commercial demand would be significantly impaired and we may be subject to regulatory enforcement action. In addition, we may engage third parties to perform various other services for us relating to adverse event reporting, safety database management, fulfillment of requests for medical information regarding our products and related services. If the quality or accuracy of the data maintained by these service providers is insufficient, or these third parties otherwise fail to comply with regulatory requirements related to adverse event reporting, we could be subject to regulatory sanctions. Additionally, if a third party errs in calculating government pricing information from transactional data in our financial records, it could impact our discount and rebate liability and potentially cause government programs to overpay providers for our products, which could expose us to significant False Claims Act liability and other civil monetary penalties. Any collaboration arrangements that we are a party to or may enter into in the future may not be successful, which could adversely affect our ability to develop and commercialize our product candidates. Our business model is to commercialize our product candidates in the United States, and we may either commercialize products outside the United States ourselves or collaborate with pharmaceutical or biotechnology companies, or academic institutions, for the development or commercialization of our product candidates in the rest of the world. For example, we currently commercialize Sunosi in Canada. In February 2023, we announced a licensing transaction with Pharmanovia to market Sunosi in Europe and certain countries in the Middle East / North Africa. Our current and future collaboration arrangements may not be successful, and the success of them will depend heavily on the efforts and activities of our collaborators. Collaborators generally have significant discretion in determining the efforts and resources that they will apply to these collaboration arrangements. For clinical trials of our product candidates being conducted by our collaborators, for example, the Phase 2 clinical trial of AXS-05 for smoking cessation in collaboration with Duke University, we relied on timeline estimates provided by our collaborators for these trials. Such timeline estimates may differ materially from actual trial completion dates. Disagreements between parties to a collaboration arrangement regarding clinical development and commercialization matters can lead to delays in the development process or commercializing the applicable product candidate and, in some cases, termination of the collaboration arrangement. These disagreements can be difficult to resolve if neither of the parties has final decision-making authority. We may license the right to market and sell our products under our collaborators’~~™~~ label codes. Alternatively, we may enter into agreements with collaborators to market and sell our products under our own label code, in which case errors and omissions by collaborators in capturing and transmitting transactional data may impact the accuracy of our government price reporting. 85 Table of Contents

Collaborations with pharmaceutical companies and other third parties often are terminated or allowed to expire by the other party. Any such termination or expiration would adversely affect us financially and could harm our business reputation. Any future collaborations we might enter into may pose a number of risks, including: ~~“~~collaborators may not perform their obligations as expected; ~~“~~collaborators may not pursue development and commercialization of any product candidates which achieve regulatory approval or may elect not to continue or renew development or commercialization programs based on clinical trial results, changes in the collaborators’~~™~~ strategic focus or available funding, or external factors, such as an acquisition, that divert resources or create competing priorities; ~~“~~collaborators may delay clinical trials, provide insufficient funding for a clinical trial program, stop a clinical trial or abandon a product candidate, repeat or conduct new clinical trials, or require a new formulation of a product candidate for clinical testing; ~~“~~collaborators could fail to make timely regulatory submissions for a product candidate; ~~“~~collaborators may not comply with all applicable regulatory requirements or may fail to report safety data in accordance with all applicable regulatory requirements; ~~“~~collaborators could independently develop, or develop with third parties, products that compete directly or indirectly with our products or product candidates if the collaborators believe that competitive products are more likely to be successfully developed or can be commercialized under terms that are more economically attractive than ours; ~~“~~product candidates discovered in collaboration with us may be viewed by our collaborators as competitive with their own product candidates or products, which may cause collaborators to cease to devote resources to the commercialization of our product candidates; ~~“~~a collaborator with marketing and distribution rights to one or more of our product candidates that achieve regulatory approval may not commit sufficient resources to the marketing and distribution of such product candidate or product; ~~“~~disagreements with collaborators, including disagreements over proprietary rights, contract interpretation, or the preferred course of development, might cause delays or termination of the research, development, or commercialization of product candidates, lead to additional responsibilities for us with respect to product candidates, or result in litigation or arbitration, any of which would be time consuming and expensive; ~~“~~collaborators may not properly maintain or defend our intellectual property rights or may use our proprietary information in such a way as to invite litigation that could jeopardize or invalidate our intellectual property or proprietary information or expose us to potential litigation; and ~~“~~collaborators may infringe the intellectual property rights of third parties, which may expose us to litigation and potential liability. If any collaborations we might enter into in the future do not result in the successful development and commercialization of products or if one of our collaborators subsequently terminates its agreement with us, we may not receive any future research funding or milestone or royalty payments under the collaboration. If we do not receive the funding we expect under the agreements, our development of our product candidates could be delayed and we may need additional resources to develop our product candidates and our product platform. Additionally, if any future collaborator of ours is involved in a business combination, the collaborator might deemphasize or terminate development or commercialization of any product candidate licensed to it by us. If one of our collaborators terminates its agreement with us, we may find it more difficult to attract new collaborators and our reputation in the business and financial communities could be adversely affected. 86 Table of Contents

RISKS RELATED TO INTELLECTUAL PROPERTY

It is difficult and costly to protect our proprietary rights, and, as a result, we may not be able to ensure their protection. In addition, patents have a limited lifespan and will eventually expire. Market exclusivity awarded by the FDA upon the approval of an NDA is limited in scope and duration. For example, our New Chemical Entity exclusivity for Sunosi expired on June 17, 2024 with an Orphan Drug Exclusivity relating to the product~~“~~’s narcolepsy indication expiring on June 17, 2026. For Avelity, the New Product Exclusivity expires on August 18, 2025. Neither of these expiry dates take into account the effect of the statutory 30-month stay should we timely commence litigation against any generic filer. A generic filer may be permitted to launch a generic version of either of our products following expiry of these exclusivities if our patents do not preclude a generic launch. Patent litigation is inherently uncertain, and we cannot guarantee the outcome of any such proceedings or that we would succeed in stopping the ~~“~~eat risk~~“~~ launch of a generic version of either of our currently commercialized products during the pendency of litigation following expiry of the 30-month stay. Such a generic launch could materially impact our commercial success. We seek to protect intellectual property relating to our products and portfolio products by prosecuting patents in the United States and elsewhere. The patent prosecution process is expensive and time consuming, and we may not be able to file and prosecute all necessary or desirable patent applications at a reasonable cost or in a timely manner. It is also possible that we will fail to identify patentable aspects of our research and development output before it is too late to obtain patent protection. Moreover, should we enter into additional collaborations we may be required to consult with or cede control to collaborators regarding the prosecution, maintenance, and enforcement of our patent applications and patents. Therefore, these patents and patent applications may not be prosecuted and enforced in a manner consistent with the best interests of our business. The patent positions of pharmaceutical and biotechnology companies can be highly uncertain and involve complex legal and factual questions for which important legal principles remain unresolved. No consistent policy regarding the breadth of claims allowed in pharmaceutical or biotechnology patents has emerged to date in the United States. The patent situation outside the United States is even more uncertain. Changes in either the patent laws or in interpretations of patent laws in the United States and other countries may diminish the value of our intellectual property. Accordingly, we cannot predict the breadth of claims that may be allowed or enforced in our patents and patent applications or in third~~“~~’party patents and patent applications. The degree of future protection for our proprietary rights is uncertain because legal means afford only limited protection and may not adequately protect our rights or permit us to gain or keep our competitive advantage. Moreover, the patent application process is also subject to numerous risks and uncertainties, and there can be no assurance that we or any of our future development partners will be successful in protecting any of our current or future product candidates that we may develop, license, or acquire by obtaining and defending patents. For example: ~~“~~we may not have been the first to conceive of and reduce to practice the inventions covered by each of our pending patent applications and issued patents; ~~“~~we may not have been the first to file patent applications for these inventions; ~~“~~others may independently develop similar or alternative technologies or duplicate any of our product candidates or technologies; ~~“~~it is possible that none of the pending patent applications will result in issued patents; ~~“~~the issued patents may not cover commercially viable active products, may not provide us with any competitive advantages, or may be successfully challenged by third parties; ~~“~~we may not develop additional proprietary technologies that are patentable; ~~“~~patents of others may have an adverse effect on our business; 87 Table of Contents

noncompliance with requirements of governmental patent agencies can result in abandonment or lapse of a patent or patent application, resulting in partial or complete loss of patent rights in the relevant jurisdiction, potentially allowing competitors to enter the market earlier than would otherwise have been the case; ~~“~~our competitors, many of whom have substantially greater resources than we do and many of whom have made significant investments in competing technologies, may seek or may have already obtained patents that will limit, interfere with, or eliminate our ability to make, use, and sell our potential product candidates; or ~~“~~there may be significant pressure on the U.S. government and international governmental bodies to limit the scope of available patent protection both inside and outside the United States for disease treatments that prove successful, as a matter of public policy regarding worldwide health concerns. Patents have a limited lifespan. In most countries, including the United States, the expiration of a patent is typically 20 years from the date that the application for the patent is filed or 20 years from the earliest non-provisional filing date to which priority is claimed if the patent is granted from a continuing application (e.g., continuation, divisional, or continuation-in-part). Various extensions of patent term may be available in particular countries; however, in all circumstances the life of a patent, and the protection it affords, has a limited term. If we encounter delays in obtaining regulatory approvals, the period of time during which we could market a product under patent protection could be reduced. We expect to seek extensions of patent terms where these are available in any countries where we are prosecuting patents. Such possible extensions include those permitted under the Drug Price Competition and Patent Term Restoration Act of 1984 in the United States, which permits a patent term extension of up to five years to cover an FDA-approved product. The actual length of the extension will depend on the amount of patent term lost while the product was in clinical trials. However, the applicable authorities, including the U.S. Patent and Trademark Office, or USPTO and the FDA in the United States, and any equivalent regulatory authority in other countries, may not agree with our assessment of whether such extensions are available, and may refuse to grant extensions to our patents, or may grant more limited extensions than we request. If this occurs, our competitors may be able to take advantage of our investment in development and clinical trials by referencing our clinical and preclinical data, and then may be able to launch their product earlier than might otherwise be the case. Patent reform legislation could increase the uncertainties and costs surrounding the prosecution of our patent applications and the enforcement or defense of our issued patents. On September 16, 2011, the Leahy-Smith America Invents Act, or the Leahy-Smith Act, was signed into law. The Leahy-Smith Act includes a number of significant changes to U.S. patent law. These include provisions that affect the way patent applications are prosecuted and may also affect patent litigation. In particular, under the Leahy-Smith Act, the United States transitioned in March 2013 to a “first to file” system in which the first inventor to file a patent application will be entitled to the patent. Third parties are allowed to submit prior art before the issuance of a patent by the USPTO and may become involved in post-grant proceedings including reexamination, post-grant review, inter-partes review, or derivation or interference proceedings challenging our patent rights or the patent rights of others. An adverse determination in any such submission, proceeding, or litigation could reduce the scope or enforceability of, or invalidate, our patent rights, which could adversely affect our competitive position. Future patent reform legislation in the U.S. and/or in jurisdictions outside the U.S. could potentially further increase the uncertainties and costs surrounding the prosecution of our patent applications and the enforcement or defense of our issued patents. 88 Table of Contents

Obtaining and maintaining our patent protection depends on compliance with various procedural, documentary, fee payment, and other requirements imposed by governmental patent agencies, and our patent protection could be reduced or eliminated for noncompliance with these requirements. The USPTO and various foreign governmental patent agencies require compliance with a number of procedural, documentary, fee payment, and other similar provisions during the patent prosecution process. Periodic maintenance fees, renewal fees, annuity fees, and various other governmental fees on patents or patent applications will be due to be paid to the USPTO and various patent agencies outside of the United States in several stages over the lifetime of the patents and applications. We have systems in place to remind us to pay these fees, and we employ and rely on reputable law firms and other professionals to effect payment of these fees to the USPTO and non~~“~~’U.S. patent agencies for the patents and patent applications we own and those that we in~~“~~’license. We also employ reputable law firms and other professionals to help us comply with the various documentary and other procedural requirements with respect to the patents and patent applications that we own and those that we in~~“~~’license. In some cases, an inadvertent lapse can be cured by payment of a late fee or by other means in accordance with the applicable rules. However, there are situations in which noncompliance can result in abandonment or lapse of the patent or patent application, resulting in partial or complete loss of patent rights in the relevant jurisdiction. In such an event, our competitors might be able to enter the market and this circumstance would have a material adverse effect on our business. If we or any future collaboration partner are sued for infringing intellectual property rights of third parties, it will be costly and time consuming, and an unfavorable outcome in any litigation would harm our business. Our ability to develop, manufacture, market, and sell any of our products depends upon our ability to avoid infringing the proprietary rights of third parties, and our commercial success depends upon our ability, and the ability of our collaborators, to develop, manufacture, market, and sell our products and use our proprietary technologies without infringing the proprietary rights of third parties. There is considerable intellectual property litigation in the biotechnology and pharmaceutical industries. Numerous U.S. and foreign issued patents and pending patent applications owned by third parties exist in the general field of treatment and management of CNS disorders and cover the use of numerous compounds and formulations in our targeted markets. Third parties may assert infringement claims against us based on existing patents or patents that may be granted in the future. Because of the uncertainty inherent in any patent or other litigation involving proprietary rights, we and our licensors may not be successful in defending intellectual property claims by third parties, which could have a material adverse effect on our business, financial condition, results of operations, and prospects. Regardless of the outcome of any litigation, defending against litigation may be expensive, time consuming, and distracting to management. In addition, because patent applications can take many years to issue, there may be currently pending applications, unknown to us, which may later result in issued patents that any of our current or future products may infringe. There could also be existing patents of which we are not aware that any of our current or future products may inadvertently infringe. If a third-party claims that we infringe their intellectual property rights, we could face a number of issues, including: ~~“~~infringement and other intellectual property claims which, whether meritorious or not, can be expensive and time consuming to litigate and can divert management~~“~~’s attention from our core business; ~~“~~substantial damages for past infringement which we may have to pay if a court decides that our product infringes on a competitor~~“~~’s patent; ~~“~~a court prohibiting us from selling or licensing our product unless the patent holder licenses the patent to us, which it would not be required to do; ~~“~~if a license is available from a patent holder, we may have to pay substantial royalties or grant cross licenses to our patents; and ~~“~~redesigning our products and processes so they do not infringe, which may not be possible or could require substantial funds and time. 89 Table of Contents

If we are found to infringe a third party~~“~~’s intellectual property rights, we could be required to obtain a license from such third party to continue developing and marketing our products and technology. However, we may not be able to obtain any required license on commercially reasonable terms, or at all. Even if we were able to obtain a license, it

could be nonâ€exclusive, thereby giving our competitors access to the same technologies licensed to us. We could be forced, including by court order, to cease commercializing the infringing technology or product. In addition, we could be found liable for monetary damages, including treble damages and attorneysâ€ fee fees if we are found to have willfully infringed a patent. A finding of infringement could prevent us from commercializing our products or force us to cease some of our business operations, which could materially harm our business. Claims that we have misappropriated the confidential information or trade secrets of third parties could have a similar negative impact on our business, financial condition, results of operations, and prospects. We may be involved in lawsuits to protect or enforce our patents or the patents of our licensors, which could be expensive, time consuming, and unsuccessful. Competitors may infringe our issued patents, our in-licensed patents, or other intellectual property that we own or in-license. Under the terms of our license agreements with Antecip, if we believe a third party is infringing on the patents subject to the licenses, we are obligated, at our own expense, to initiate suit against those third parties. To counter infringement or unauthorized use, we may be required to file infringement claims, which can be expensive and time consuming. Any claims we assert against perceived infringers could provoke these parties to assert counterclaims against us alleging that we infringe their patents and/or to challenge the validity of the asserted patent(s) before a court or the USPTO (e.g., in post-grant proceedings such as Inter Parties Review before the Patent Trial and Appeal Board (PTAB) of the USPTO). In addition, in a patent infringement or validity proceeding, a decision maker (e.g., a court or the PTAB) may decide that a patent of ours is invalid or unenforceable, in whole or in part; construe the patentâ€s claims narrowly; or refuse to stop the other party from using the technology at issue on the grounds that our patents do not cover the technology in question. An adverse result in any litigation proceeding or related proceeding at the USPTO could put one or more of our patents at risk of being invalidated or interpreted narrowly. Furthermore, because of the substantial amount of discovery required in connection with intellectual property litigation, there is a risk that some of our confidential information could be compromised by disclosure during this type of litigation. Many of our competitors are larger than we are and have substantially greater resources than we do. They are, therefore, likely to be able to sustain the costs of complex patent litigation longer than we could. In addition, the uncertainties associated with litigation could have a material adverse effect on our ability to raise the funds necessary to continue our clinical trials, continue our internal research programs, in-license needed technology, or enter into development partnerships that would help us bring our product candidates to market. We have licensed and may need to license certain intellectual property from third parties in the future. Such licenses may not be available or may not be available on commercially reasonable terms. Our business may be materially harmed if the licenses are not available or terminated for any reason. We are a party to certain license agreements under which we are granted rights to intellectual property, including patent rights that are important to our business. We expect that we may need to enter into additional license agreements in the future to commercialize our products, in which case we would be required to obtain a license from additional third parties. Such licenses may not be available on commercially reasonable terms, or at all, which could materially harm our business, financial condition, results of operations, and prospects. We rely on these licenses to use intellectual property that may be material to our business and important or necessary to the development or commercialization of our products. Our existing license agreements impose, and we expect that future license agreements will impose on us, various exclusivity obligations. If we fail to comply with our obligations under these agreements, the applicable licensor may have the right to terminate our license, in which case we may not be able to develop or commercialize the products covered by such license. 90 Table of ContentsÂ In January 2020, we entered into an agreement with Pfizer Inc., or Pfizer, for an exclusive U.S. license to Pfizerâ€s clinical and nonclinical data, and intellectual property for reboxetine, the active pharmaceutical ingredient in AXS-12 which Axsome is developing for the treatment of narcolepsy. The agreement also provides Axsome exclusive rights to develop and commercialize esreboxetine, a new late-stage product candidate now referred to as AXS-14, in the U.S. for the treatment of fibromyalgia. Under the terms of the agreement, we received from Pfizer an exclusive U.S. license to Pfizer data for reboxetine and esreboxetine encompassing a full range of nonclinical studies, and short-term and long-term clinical trials involving more than five thousand patients. The licensed data includes results of a positive Phase 3 trial and a positive Phase 2 trial of esreboxetine in the treatment of fibromyalgia. We will have the exclusive right and sole responsibility of developing AXS-14 (esreboxetine) in the U.S. for the treatment of fibromyalgia and for other indications. Pfizer received 82,019 shares of our common stock having a value of \$8.0 million, based on the average closing price of our common stock for the 10 prior trading days of \$97.538, in consideration for the license and rights. Pfizer also received an upfront cash payment of \$3.0 million and will receive up to \$323 million in regulatory and sales milestones and tiered mid-single to low double-digit royalties on future sales. Pfizer will also have a right of first negotiation on any potential future strategic transactions involving AXS-12 and AXS-14. Under the agreement, we are obligated to use commercially reasonable efforts to develop, manufacture and commercialize the compounds and products in the United States and to seek and maintain regulatory approvals for the compounds and products. The agreement will expire on a product-by-product basis upon expiration of the last-to-expire royalty term for such product. On expiration (but not earlier termination), we will have a perpetual, non-exclusive, fully paid, royalty-free and irrevocable license under the licensed patent rights and related data to develop, manufacture, use, commercialize and otherwise exploit the compounds. Either party may terminate the agreement for the other partyâ€s material breach following a cure period. Pfizer may immediately terminate the agreement upon certain insolvency events relating to us. We may terminate the agreement for any reason upon ninety days written notice to Pfizer at any time after the first anniversary of the agreement. If the license agreement with Pfizer is terminated for any reason, our business, financial condition, results of operations, and prospects will be materially harmed. In 2012, we entered into three exclusive license agreements with Antecip Bioventures II LLC, or Antecip, an entity owned by our Chief Executive Officer and Chairman of the Board, Herriot Tabuteau, M.D., in which we were granted exclusive licenses to develop, manufacture, and commercialize Antecipâ€s patents and applications related to the development of AXS-05, as well as two product candidates that are not currently in development, anywhere in the world for human therapeutic, veterinary, and diagnostic use. The agreements were amended in August 2015 to update the schedule of patents and applications subject to the license agreements. Pursuant to the agreements, we are required to use commercially reasonable efforts to develop, obtain regulatory approval for, and commercialize AXS-05. Under the terms of the agreements, we are required to pay to Antecip a royalty equal to 3.0% for AXS-05, of net sales of products containing the licensed technology by us, our affiliates, or permitted sublicensees. These royalty payments are subject to reduction by an amount up to 50.0% of any required payments to third parties. Unless earlier terminated by a party for cause or by us for convenience, the agreements remain in effect on a product-by-product and country-by-country basis until the later to occur of (1) the applicable product is no longer covered by a valid claim in that country or (2) 10 years from the first commercial sale of the applicable product in that country. Upon expiration of the agreements with respect to a product in a country, our license grant for that product in that country will become a fully paid up, royalty free, perpetual nonâ€exclusive license. If Antecip terminates any of the agreements for cause, or if we exercise our right to terminate any of the agreements for convenience, the rights granted to us under such terminated agreement will revert to Antecip. We are dependent upon the license agreements with Antecip and if any of the license agreements with Antecip are terminated for any reason, our business, financial condition, results of operations, and prospects will be materially harmed. In connection with the acquisition of Sunosi, in addition to the upfront purchase price, we assumed certain liabilities in connection with the acquisition and agreed to make non-refundable, non-creditable royalty payments to Jazz on U.S. net sales. There are no royalty payments due to Jazz for net sales outside of the U.S. In addition, we assumed all of the commitments of Jazz to SK and Aerial. The assumed commitments to SK and Aerial include single-digit tiered royalties and certain sales and development milestones. We are dependent on these agreements, and if we breach these agreements, our business, financial condition, results of operations, and prospects will be materially harmed. 91 Table of ContentsÂ We may be subject to claims that our employees, independent contractors, or consultants have wrongfully used or disclosed alleged trade secrets of their former employers or other third parties. As is common in the biotechnology and pharmaceutical industry, we employ individuals who were previously employed at other biotechnology or pharmaceutical companies, including our competitors or potential competitors. Although no claims against us are currently pending, we may be subject to claims that these individuals or we have inadvertently or otherwise used or disclosed trade secrets or other proprietary information of their former employers. Litigation may be necessary to defend against these claims. Even if we are successful in defending against these claims, litigation could result in substantial costs and be a distraction to management. We may be unable to adequately prevent disclosure of trade secrets and other proprietary information. We rely on trade secrets to protect our proprietary technological advances and knowâ€how, especially where we do not believe patent protection is appropriate or obtainable. However, trade secrets are difficult to protect. We rely in part on confidentiality agreements with our employees, consultants, contractors, outside scientific collaborators, sponsored researchers, and other advisors, including the third parties we rely on to manufacture our products, to protect our trade secrets and other proprietary information. However, any party with whom we have executed such an agreement may breach that agreement and disclose our proprietary information, including our trade secrets. Accordingly, these agreements may not effectively prevent disclosure of confidential information and may not provide an adequate remedy in the event of unauthorized disclosure of confidential information. Costly and timeâ€consuming litigation could be necessary to enforce and determine the scope of our proprietary rights. In addition, others may independently discover our trade secrets and proprietary information. Further, the FDA, as part of its Transparency Initiative, a proposal to increase disclosure and make data more accessible to the public, is currently considering whether to make additional information publicly available on a routine basis, including information that we may consider to be trade secrets or other proprietary information, and it is not clear at the present time how the FDAâ€s disclosure policies may change in the future, if at all. Failure to obtain or maintain trade secret protection could enable competitors to use our proprietary information to develop products that compete with our products or cause additional, material adverse effects upon our competitive business position and financial results. We or our licensors may not be able to protect our intellectual property rights throughout the world. Filing, prosecuting, and defending patent applications and patents on products in all countries throughout the world would be prohibitively expensive, and our intellectual property rights in some countries outside the United States can be less extensive than those in the United States. In addition, the laws of some foreign countries do not protect intellectual property rights to the same extent as federal and state laws in the United States. Consequently, we may not be able to prevent third parties from practicing our inventions in all countries outside the United States, or from selling or importing products made using our inventions in and into the United States or other jurisdictions. Competitors may use our technologies in jurisdictions where we have not obtained patent protection to develop their own products and further, may export otherwise infringing products to territories where we have patent protection, but where enforcement rights are not as strong as those in the United States. These products may compete with our products and our patents or other intellectual property rights may not be effective or sufficient to prevent them from competing. Many companies have encountered significant problems in protecting and defending intellectual property rights in foreign jurisdictions. The legal systems of certain countries do not favor the enforcement of patents and other intellectual property protection, which could make it difficult for us to stop the infringement of our patents generally. Proceedings to enforce our patent rights in foreign jurisdictions could result in substantial costs and divert our efforts and attention from other aspects of our business, could put our patents at risk of being invalidated or interpreted narrowly and our patent applications at risk of not issuing, and could provoke third parties to assert claims against us. We may not prevail in any lawsuits that we initiate and the damages or other remedies awarded, if any, may not be commercially meaningful. Accordingly, our efforts to enforce our or our licensorsâ€ intellectual property rights around the world may be inadequate to obtain a significant commercial advantage from the intellectual property that we develop or license. 92 Table of ContentsÂ RISKS RELATED TO LEGAL AND COMPLIANCE MATTERS If we fail to comply with federal, state, and foreign healthcare laws, including fraud and abuse and transparency and health and other data protection, information privacy and security laws, we could face substantial penalties and our business, financial condition, results of operations, and prospects could be adversely affected. As a pharmaceutical company, we are subject to many federal and state healthcare laws, including those described in the â€Businessâ€ Government Regulation and Product Approvalâ€ section of our Annual Report on Form 10-K filed with the SEC on February 23, 2024, such as the federal Anti-Kickback Statute, the federal civil and criminal False Claims Act, the civil monetary penalties statute, the Medicaid Drug Rebate statute and other price reporting requirements, the Veterans Health Care Act of 1992, the Sunshine Act, the Foreign Corrupt Practices Act of 1977, the Patient Protection and Affordable Care Act of 2010, and similar state and foreign laws. Even though we do not and will not control referrals of healthcare services or bill directly to Medicare, Medicaid, or other third-party payors, certain federal and state healthcare laws and regulations pertaining to fraud and abuse and patientsâ€ rights are and will be applicable to our business. We are subject to healthcare fraud and abuse laws by both the federal government and the states in which we conduct our business. There are numerous other laws and legislative and regulatory initiatives at the federal and state levels addressing privacy and security concerns, and some state privacy and security laws apply more broadly than the Health Insurance Portability and Accountability Act (HIPAA) and its implementing regulations. For example, California enacted legislation â€ the California Consumer Privacy Act, or CCPA â€ which went into effect in January 2020. The CCPA, among other things, creates data privacy obligations for covered companies and provides new privacy rights to California residents, including the right to opt out of certain disclosures of their information. The CCPA also creates a private right of action with statutory damages for certain data breaches, thereby potentially increasing risks associated with a data breach. Further, many data privacy and security laws within the U.S. have concurrent jurisdiction, which could subject us to enforcement by multiple agencies under multiple statutes for the same conduct (e.g., FTC enforcement under Section 5, HHS-Office for Civil Rights enforcement under HIPAA, and actions by state Attorneys General for violation of applicable state laws). In addition, EU member states and other foreign jurisdictions, including Switzerland, have adopted data protection laws and regulations which impose significant compliance obligations. Moreover, the collection and use of personal health data in the EU, which was formerly governed by the provisions of the EU Data Protection Directive, was replaced with the EU General Data Protection Regulation, or the GDPR, in May 2018. The GDPR, which is wide-ranging in scope, imposes several requirements relating to the consent of the individuals to whom the personal data relates, the information provided to the individuals, the security and confidentiality of the personal data, data breach notification and the use of third-party processors in connection with the processing of personal data. The GDPR also imposes strict rules on the transfer of personal data out of the EU to the U.S., provides an enforcement authority and imposes large penalties for noncompliance, including the potential for fines of up to â‚¬20 million or 4% of the annual global revenues of the noncompliant company, whichever is greater. The GDPR requirements apply not only to third-party transactions, but also to transfers of information between us and our subsidiaries, including employee information. The recent implementation of the GDPR has increased our responsibility and liability in relation to personal data that we process, including in clinical trials, and we may in the future be required to put in place additional mechanisms to ensure compliance with the GDPR, which could divert managementâ€s attention and increase our cost of doing business. Moreover, new regulation or legislative actions regarding data privacy and security (together with applicable industry standards) may increase our costs of doing business. In this regard, we expect that there will continue to be new proposed laws, regulations and industry standards relating to privacy and data protection in the United States, the EU and other jurisdictions, and we cannot determine the impact such future laws, regulations and standards may have on our business. 93 Table of ContentsÂ If we or our operations are found to be in violation of any federal or state healthcare, data or information privacy law, or any other governmental regulations that apply to us, we may be subject to penalties, including civil, criminal, and administrative penalties, damages, fines, disgorgement, debarment from government contracts, refusal of orders under existing contracts, exclusion from participation in U.S. federal or state health care programs, corporate integrity agreements, and the curtailment or restructuring of our operations, any of which could materially adversely affect our ability to operate our business and our financial results. If any of the physicians or other healthcare providers or entities with whom we expect to do business, including our collaborators, is found not to be in compliance with applicable laws, it may be subject to criminal, civil, or administrative sanctions, including but not limited to, exclusions from participation in government healthcare programs, which could also materially affect our business. Although an effective compliance program can mitigate the risk of investigation and prosecution for violations of these laws, the risks cannot be entirely eliminated. Moreover, achieving and sustaining compliance with applicable federal and state fraud laws may prove costly. Any action against us for violation of these laws, even if we successfully defend against it, could cause us to incur significant legal expenses and divert our managementâ€s attention from the operation of our business. If the government or third-party payors fail to provide adequate coverage and payment rates for any of our products, or if health maintenance organization (HMOs) or long-term care facilities choose to use therapies that are less expensive, our revenue and prospects for profitability will be limited. In both domestic and foreign markets, sales of our products depend in part upon the availability of coverage and reimbursement from third-party payors. Such third-party payors include government health programs such as Medicare and Medicaid, managed care providers, private health insurers, and other organizations. Coverage decisions may depend upon clinical and economic standards that disfavor new drug products when more established or lower cost therapeutic alternatives are already available or subsequently become available. Many private payors employ â€new-to-market blockâ€ for newly launched medications and other products until the payors have had the opportunity to make a coverage decision based upon their internal review of such products. When a medication or other product is not covered, the patient is responsible to pay the full price, which can significantly limit

utilization. If reimbursement is not available, or is available only to limited levels, our product candidates may be competitively disadvantaged, and we, or our collaborators, may not be able to successfully commercialize our product candidates. Even if coverage is provided, the approved reimbursement amount may not be high enough to allow us, or our collaborators, to establish or maintain a market share sufficient to realize a sufficient return on our or their investments. Alternatively, securing favorable reimbursement terms may require us to compromise pricing and prevent us from realizing an adequate margin over cost. 94 Table of Contents

There is significant uncertainty related to third-party payor coverage and reimbursement of newly approved drugs. Marketing approvals, pricing, and reimbursement for new drug products vary widely from country to country. Current and future legislation may significantly change the approval requirements in ways that could involve additional costs and cause delays in obtaining approvals. Some countries require approval of the sale price of a drug before it can be marketed. In many countries, the pricing review period begins after marketing or product licensing approval is granted. In some foreign markets, prescription pharmaceutical pricing remains subject to continuing governmental control even after initial approval is granted. As a result, we might obtain marketing approval for a product in a particular country, but then be subject to price regulations that delay commercial launch of the product, possibly for lengthy time periods, which may negatively impact the revenues we are able to generate from the sale of the product in that country. Additionally, drug pricing is a key state and federal issue within the U.S., with recent legislation and additional proposals designed to bring more transparency to drug pricing, reduce the cost of prescription drugs under Medicare and Medicaid, review the relationship between pricing and manufacturer patient programs and reform government program reimbursement methodologies for drugs. We expect continued focus and pressure on drug pricing going forward. Adverse pricing limitations may hinder our ability or the ability of our collaborators to recoup our or their investment in one or more of our products or product candidates. Our ability, and the ability of our collaborators, to commercialize our product candidates will depend in part on the extent to which coverage and reimbursement for these products and related treatments will be available from government health administration authorities, private health insurers, and other organizations. Regulatory authorities and third-party payors, such as private health insurers and health maintenance organizations, decide which medications they will cover and establish reimbursement levels. The healthcare industry is acutely focused on cost containment, both in the United States and elsewhere. Several third-party payors are requiring that drug companies provide them with predetermined discounts from list prices, are using preferred drug lists to leverage greater discounts in competitive classes, are disregarding therapeutic differentiators within classes, and are challenging the prices charged for drugs. Brand drugs without generic equivalents are often included in therapeutic classes with other brands that have generic versions and may be similarly disadvantaged by the availability of low-cost alternatives within the class, particularly if a generic version of the same agent is available in another form. Third-party payors, whether foreign or domestic, or governmental or commercial, are developing increasingly sophisticated methods of controlling healthcare costs. In addition, in the United States, no uniform policy of coverage and reimbursement for drug products exists among third-party payors. Therefore, coverage and reimbursement for drug products can differ significantly from payor to payor. Further, we believe that future coverage and reimbursement will likely be subject to increased restrictions both in the United States and in international markets. Third-party coverage and reimbursement for our products or product candidates for which we receive regulatory approval may not be available or adequate in either the United States or international markets, which could have a negative effect on our business, financial condition, results of operations, and prospects. Assuming coverage is approved, the resulting reimbursement payment rates might not be adequate. If payors subject our products to maximum payment amounts or impose limitations that make it difficult to obtain reimbursement, providers may choose to use therapies which are less expensive or have fewer access restrictions when compared to our product candidates. Additionally, if payors require high copayments, beneficiaries may decline prescriptions and seek alternative therapies. We may need to conduct post-marketing studies in order to demonstrate the cost effectiveness of any of our products to the satisfaction of hospitals and other target customers and their third-party payors. Such studies might require us to commit a significant amount of management time and financial and other resources. Our products might not ultimately be considered cost effective. Adequate third-party coverage and reimbursement might not be available to enable us to maintain price levels sufficient to realize an appropriate return on investment in product development. 95 Table of Contents

In addition, federal programs impose penalties on manufacturers of drugs marketed under an NDA, including 505(b)(2) drugs, in the form of mandatory additional rebates and/or discounts if commercial prices increase at a rate greater than the Consumer Price Index Urban, and these rebates and/or discounts, which can be substantial, may impact our ability to raise commercial prices. Regulatory authorities and third-party payors have attempted to control costs by limiting coverage and the amount of reimbursement for particular medications, which could affect our ability or that of our collaborators to sell our product candidates profitably. These payors may not view our products, if any, as cost effective, and coverage and reimbursement may not be available to our customers, or those of our collaborators, or may not be sufficient to allow our products, if any, to be marketed on a competitive basis. Cost control initiatives could cause us, or our collaborators, to decrease, discount, or rebate a portion of the price we, or they, might establish for products, which could result in lower than anticipated product revenues. If the realized prices for our products, if any, decrease or if governmental and other third-party payors do not provide adequate coverage or reimbursement, our prospects for revenue and profitability will suffer. There may also be delays in obtaining coverage and reimbursement for newly approved drugs, and coverage may be more limited than the indications for which the drug is approved by the FDA or comparable foreign regulatory authorities. Moreover, eligibility for reimbursement does not imply that any drug will be paid for in all cases or at a rate that covers our costs, including research, development, manufacture, sale, and distribution. Interim reimbursement levels for new drugs, if applicable, may also not be sufficient to cover our costs and may only be temporary. Reimbursement rates may vary, by way of example, according to the use of the drug and the clinical setting in which it is used. Reimbursement rates may also be based on reimbursement levels already set for lower cost drugs or may be incorporated into existing payments for other services. Prices paid for a drug also vary depending on the class of trade. Prices charged to government customers are subject to price controls, including ceilings, and private institutions obtain discounts through group purchasing organizations. Net prices for drugs may be further reduced by mandatory discounts or rebates required by government healthcare programs and demanded by private payors. Drugs approved under NDAs, including 505(b)(2) drugs, are subject to greater discounts and reporting obligations under federal programs than drugs approved under ANDAs, and the inflation penalty applicable to these products can equal the selling price. It is also not uncommon for market conditions to warrant multiple discounts to different customers on the same unit, such as purchase discounts to institutional care providers and rebates to the health plans that pay them, which reduces the net realization on the original sale. In addition, increasingly, third-party payors are requiring higher levels of evidence of the benefits and clinical outcomes of new technologies and are challenging the prices charged. We, and our collaborators, cannot be sure that coverage will be available for any product that we, or they, commercialize and, if available, that the reimbursement rates will be adequate. Further, the net reimbursement for drug products may be subject to additional reductions if there are changes to laws that presently restrict imports of drugs from countries where they may be sold at lower prices than in the United States. An inability to promptly obtain coverage and adequate payment rates from both government funded and private payors for any of our product candidates for which we obtain marketing approval could have a material adverse effect on our operating results, our ability to raise capital needed to commercialize products, and our overall financial condition. We are subject to new legislation, regulatory proposals, and healthcare payor initiatives that may increase our costs of compliance, and adversely affect our ability to market our products, obtain collaborators, and raise capital. In the United States and some foreign jurisdictions, there have been a number of legislative and regulatory changes and proposed changes regarding the healthcare system that could prevent or delay marketing approval of our product candidates, restrict or regulate post-approval activities, and affect our ability, or the ability of our collaborators, to profitably sell any products for which we obtain marketing approval. It is unclear what impact these various efforts have and will have on our business operations and resulting financial condition. We expect that current laws, as well as other healthcare reform measures that may be adopted in the future, may result in more rigorous coverage criteria and in additional downward pressure on the price that we, or our collaborators, may receive for any approved products. 96 Table of Contents

It is unclear how regulations and sub-regulatory policy, which fluctuate continually, may affect interpretation and further implementation of the ACA and its practical effects on our business. We are unable to predict the future course of federal or state healthcare legislation in the United States directed at broadening the availability of healthcare and containing or lowering the cost of healthcare, including drugs and biologics. Any further changes in the law or regulatory framework that reduce our revenue or increase our costs could also have a material and adverse effect on our business, financial condition and results of operations. In addition, there is a great degree of uncertainty regarding how recent U.S. Supreme Court decisions, including *Loper Bright Enterprises v. Raimondo*, 603 U.S. ____ (2024) and *Corner Post, Inc. v. Board of Governors of the Federal Reserve System*, 603 U.S. ____ (2024), will impact the FDA's enforcement and decision-making authority. *Loper Bright* explicitly overturned *Chevron* deference, which previously gave judicial deference to administrative action by agencies in the executive branch. Furthermore, the Supreme Court's decision in *Corner Post* may result in challenges to FDA decisions by new litigants long into the future. While the full effect that the ACA may have on our business continues to evolve, we expect that the ACA, as well as other federal and state healthcare reform measures that may be adopted in the future, may result in more rigorous coverage criteria, increased regulatory burdens and operating costs, decreased net revenue from our pharmaceutical products, decreased potential returns from our development efforts, and additional downward pressure on the price that we receive for any approved drug. There is also an increasing focus on the price of drugs, both at the state and federal levels, and it is likely that additional pricing controls will be enacted and could harm our business, financial condition and results of operations. For instance, states such as California have begun enacting transparency laws aimed at curbing drug price increases. We continue to monitor the potential impact of proposals and recently enacted legislation to lower prescription drug costs at the federal and state level. For example, the Inflation Reduction Act of 2022, or the IRA, was signed into law by President Biden in August 2022. The IRA makes significant changes to how drugs are covered and paid for under the Medicare program, including the creation of financial penalties for drugs whose prices rise faster than the rate of inflation, redesign of the Medicare Part D program to require manufacturers to bear more of the liability for certain drug benefits, and government price-setting for certain Medicare Part D drugs, starting in 2026, and Medicare Part B drugs starting in 2028. We are evaluating what effect, if any, the IRA may have on our business. Any reduction in reimbursement from Medicare or other government healthcare programs may result in a similar reduction in payments from private payors. The implementation of cost containment measures or other healthcare reforms may prevent us from being able to generate revenue, attain profitability or commercialize our drugs. Legislative and regulatory proposals may also be made to expand post approval requirements and restrict sales and promotional activities for drugs. We cannot be sure whether additional legislative changes will be enacted, or whether the FDA regulations, guidance, or interpretations will be changed, or what the impact of such changes on the marketing approvals of our product candidates, if any, may be. In addition, increased scrutiny by the U.S. Congress of the FDA's approval process may significantly delay or prevent marketing approval, as well as subject us to more stringent product labeling and post-marketing testing and other requirements. In addition, there have been a number of other legislative and regulatory proposals aimed at changing the pharmaceutical industry. For instance, the enacted Drug Supply Chain Security Act, or DSCSA imposes obligations on manufacturers of prescription drug products for commercial distribution, regulating the distribution of the products at the federal level, and sets certain standards for federal or state registration and compliance of entities in the supply chain (manufacturers and repackagers, wholesale distributors, third-party logistics providers, and dispensers). The DSCSA preempts certain previously enacted state pedigree laws and the pedigree requirements of the Prescription Drug Marketing Act, or PDMA. Trading partners within the drug supply chain must now ensure certain product tracing requirements are met that they are doing business with other authorized trading partners; and they are required to exchange transaction information, transaction history, and transaction statements. Product identifier information (an aspect of the product tracing scheme) is also now required. The DSCSA requirements, development of standards, and the system for product tracing have been and will continue to be phased in over a period of years, with the FDA indicating it would permit certain exemptions and exclusions, and enforcement discretion on certain aspects due to the COVID-19 pandemic, although this situation may continue to evolve. The distribution of product samples continues to be regulated under the PDMA, and some states also impose regulations on drug sample distribution. 97 Table of Contents

Compliance with the federal track and trace requirements may increase our operational expenses and impose significant administrative burdens. As a result of these and other new proposals, we may determine to change our current manner of operation, provide additional benefits, or change our contract arrangements, any of which could have a material adverse effect on our business, financial condition, and results of operations. Governments outside the United States tend to impose strict price controls, which may adversely affect our revenues, if any. In international markets, reimbursement and health care payment systems vary significantly by country, and many countries have instituted price ceilings on specific products and therapies. In some countries, particularly the countries of the EU, the pricing of prescription pharmaceuticals is subject to governmental control. In these countries, pricing negotiations with governmental authorities can take considerable time after the receipt of marketing approval for a product. To obtain coverage and reimbursement or pricing approval in some countries, we may be required to conduct a clinical trial that compares the cost-effectiveness of our product candidate to other available therapies. There can be no assurance that our products will be considered cost-effective by third-party payors, that an adequate level of reimbursement will be available, or that the third-party payors' reimbursement policies will not adversely affect our ability to sell our products profitably. If reimbursement of our products is unavailable or limited in scope or amount, or if pricing is set at unsatisfactory levels, our business could be harmed, possibly materially. Our employees, independent contractors, consultants, commercial partners, principal investigators, or CROs may engage in misconduct or other improper activities, including noncompliance with regulatory standards and requirements, which could have a material adverse effect on our business. We are exposed to the risk of employee fraud or other misconduct. Misconduct by employees, independent contractors, consultants, commercial partners, principal investigators, or CROs could include intentional, reckless, negligent, or unintentional failures to comply with FDA regulations, comply with applicable fraud and abuse laws, provide accurate information to the FDA, report financial information or data accurately, or disclose unauthorized activities to us. This misconduct could also involve the improper use or misrepresentation of information obtained in the course of clinical trials, which could result in regulatory sanctions and serious harm to our reputation. It is not always possible to identify and deter this type of misconduct, and the precautions we take to detect and prevent this activity may not be effective in controlling unknown or unmanaged risks or losses or in protecting us from governmental investigations or other actions or lawsuits stemming from a failure to be in compliance with such laws or regulations. If any such actions are instituted against us, and we are not successful in defending ourselves or asserting our rights, those actions could have a significant impact on our business, financial condition, and results of operations, including the imposition of significant fines or other sanctions. Further, even if we are successful in mounting a defense, we may incur substantial costs in preparing and maintaining our defense and any such action would be time- and resource-intensive and potentially divert management's attention from the business, which could adversely affect our ability to operate our business and our results of operations. Our third-party manufacturers may use hazardous materials in the production of our products and if so, they must comply with environmental laws and regulations, which can be expensive and restrict how we or they do business. Manufacturing activities for the production of our products involve the controlled storage, use, and disposal of hazardous materials, including the components of our products, and other hazardous compounds. Our third-party manufacturers and we are subject to federal, state, and local laws and regulations governing the use, manufacture, storage, handling, release, and disposal of, and exposure to, these hazardous materials. Violation of these laws and regulations could lead to substantial fines and penalties. Although we believe that our safety procedures, and those of our third-party manufacturers, for handling and disposing of these materials comply with the standards prescribed by these laws and regulations, we cannot eliminate the risk of accidental contamination or injury from these materials. In the event of an accident, state or federal authorities may curtail our use of these materials and interrupt our business operations. In addition, we could become subject to potentially material liabilities relating to the investigation and cleanup of any contamination, whether currently unknown or caused by future releases. 98 Table of Contents

Although we maintain workers' compensation insurance to cover us for costs and expenses we may incur due to injuries to our employees resulting from the use of hazardous materials, this insurance may not provide adequate coverage against potential liabilities. We do not maintain insurance for environmental liability or toxic tort claims that may be asserted against us in connection with our storage or disposal of biological, hazardous, or radioactive materials. In addition, we may incur substantial costs in order to comply with current or future environmental, health, and safety laws and regulations. These current or future laws and regulations may impair our research, development, or production efforts. Our failure to comply with these laws and regulations also may result in substantial fines, penalties, or other sanctions. RISKS RELATED TO OUR BUSINESS OPERATIONS We have and may continue to significantly increase the size of our organization, and we may experience difficulties in managing growth. If we are unable to implement appropriate controls and procedures to manage our growth, we will not be able to implement our business plan successfully. As of July 29, 2024, we had 589 full-time employees. Our management, personnel, systems, and facilities currently in place may not be adequate to support future growth. In addition, we may not be able to recruit and retain

qualified personnel in the future, particularly for sales and marketing positions, due to competition for personnel among pharmaceutical businesses, and the failure to do so could have a significant negative impact on our future product revenues and business results. Further, the value to employees of stock options or restricted stock units that vest over time is significantly affected by movements in our stock price that are beyond our control and may at any time be insufficient to counteract more lucrative offers from other companies. Our need to effectively manage our operations, growth and various projects requires that we: â€¢continue the hiring and training of personnel for our commercial organization, and maintain appropriate systems, policies and infrastructure to support that organization; â€¢ensure that our consultants and other service providers successfully carry out their contractual obligations, provide high quality results, and meet expected deadlines; â€¢continue to carry out our own contractual obligations to our licensors and other third parties; and â€¢continue to improve our operational, financial, and management controls, reporting systems, and procedures. We may be unable to successfully implement these tasks on a larger scale and, accordingly, may not achieve our development and commercialization goals. Our continued growth could strain our personnel resources and infrastructure, and if we are unable to implement appropriate controls and procedures to manage our growth, we will not be able to implement our business plan successfully. As we continue to complete our clinical trials and commercialize our product candidates, and as our company continues to grow, we may experience significant strains on our resources, including to our administrative, operational and financial infrastructure, which will result in additional burdens on management. Our success will depend in part upon the ability of our senior management to manage this growth effectively. To do so, we must continue to hire, train and manage new employees as needed. If our new hires perform poorly, or if we are unsuccessful in hiring, training, managing and integrating these new employees, or if we are not successful in retaining our existing employees, our business would be harmed. To manage the expected growth of our operations and personnel, we will need to continue to improve our operational, financial and management controls and our reporting systems and procedures. 99 Table of ContentsÂ We may acquire businesses or products, or form strategic alliances in the future, and we may not realize the benefits of such acquisitions or alliances. We may acquire additional businesses or products, form strategic alliances or create joint ventures with third parties that we believe will complement or augment our existing business. If we acquire businesses with promising markets or technologies, we may not be able to realize the benefit of acquiring such businesses if we are unable to successfully integrate them with our existing operations and company culture. We may encounter numerous difficulties in developing, manufacturing, and marketing any new products resulting from a strategic alliance or acquisition that delay or prevent us from realizing their expected benefits or enhancing our business. We cannot assure you that, following any such acquisition, we will achieve the expected synergies to justify the transaction. We may not be able to manage our business effectively if we are unable to attract and retain key personnel. Our industry has experienced a high rate of turnover of management personnel in recent years. We are highly dependent on the skills and leadership of our management team, including Dr. Herriot Tabuteau, our Chief Executive Officer and Chairman of the Board. We do not have formal employment agreements with any of our management team. However, we typically enter into offer letters with our executive officers and key personnel. Our senior management may terminate their employment with us at any time. If we lose one or more members of our senior management team, our ability to successfully implement our business strategy could be seriously harmed. Replacing these employees may be difficult and may take an extended period of time because of the limited number of individuals in our industry with the breadth of skills and experience required to develop, gain regulatory approval of, and commercialize products successfully. Competition to hire from this limited pool is intense, and we may be unable to hire, train, retain, or motivate additional key personnel. We do not maintain â€¢key personâ€¢ insurance for any of our executives or other employees. If we fail to maintain an effective system of internal controls over financial reporting, we may not be able to accurately report our financial condition, results of operations or cash flows, which may adversely affect investor confidence in us and, as a result, the value of our common stock. As a public company, we continue to incur significant legal, accounting and other expenses that we did not incur as a private company. In addition, the Sarbanes-Oxley Act, as well as rules subsequently implemented by the SEC and The Nasdaq Stock Market LLC, or Nasdaq, impose various requirements on public companies, including requiring establishment and maintenance of effective disclosure controls and internal control over financial reporting and changes in corporate governance practices. Our management and other personnel devote a substantial amount of time to these compliance initiatives. Moreover, these rules and regulations have increased our legal and financial compliance costs and have made some activities more time-consuming and costly. The Sarbanes-Oxley Act requires, among other things, that we maintain effective internal controls for financial reporting and disclosure controls and procedures. Under Section 404(a) of the Sarbanes-Oxley Act, we are required to furnish a report by management on, among other things, the effectiveness of our internal control over financial reporting. This report must include disclosure of any material weaknesses identified by our management during its periodic assessment of our internal control over financial reporting. A material weakness is a deficiency, or combination of deficiencies, in internal control over financial reporting that results in more than a reasonable possibility that a material misstatement of annual or interim financial statements will not be prevented or detected on a timely basis. Section 404(b) of the Sarbanes-Oxley Act also requires our independent auditors to attest to, and report on, this management assessment. Ensuring that we have adequate internal controls in place so that we can produce accurate financial statements on a timely basis is a costly and time-consuming effort. If we are not able to comply with the requirements of Section 404 or if we or our independent registered public accounting firm are unable to attest to the effectiveness of our internal control over financial reporting, investors may lose confidence in the accuracy and completeness of our financial reports, the market price of our stock could decline and we could be subject to sanctions or investigations by Nasdaq, the SEC, or other regulatory authorities, which would require additional financial and management resources. 100 Table of ContentsÂ During the evaluation and testing process, if we identify one or more material weaknesses in our internal control over financial reporting, we would be required to implement remediation procedures aimed at mitigating the control weakness or weaknesses. Until such remediation procedures succeed in mitigating the control weakness or weaknesses, we would be unable to assert that our internal control over financial reporting is effective. We cannot assure you that there will not be material weaknesses in our internal control over financial reporting in the future. Any failure to maintain internal control over financial reporting could severely inhibit our ability to timely and accurately report our financial condition, results of operations or cash flows. The cost of compliance with Section 404 requires us to incur substantial accounting expense and expend significant management time on compliance related issues as we implement additional corporate governance practices and comply with reporting requirements. Although we currently use the services of a third-party accounting firm to assist us with internal controls, we currently do not have an internal audit group, and we may need to hire additional accounting and financial staff with appropriate public company experience and technical accounting knowledge. Moreover, if we are not able to comply with these requirements in a timely manner or if we or our independent registered public accounting firm identifies deficiencies in our internal control over financial reporting that are deemed to be material weaknesses, the market price of our stock could decline, we could lose investor confidence in the accuracy and completeness of our financial reports, and we could be subject to sanctions or investigations by Nasdaq, the SEC or other regulatory authorities, which would require additional financial and management resources. Failure to remedy any material weakness in our internal control over financial reporting, or to implement or maintain other effective control systems required of public companies, could also restrict our future access to the capital markets. Our disclosure controls and procedures may not prevent or detect all errors or acts of fraud. We are subject to the periodic reporting requirements of the Exchange Act. Our disclosure controls and procedures are designed to reasonably assure that information required to be disclosed by us in reports we file or submit under the Exchange Act is accumulated and communicated to management, recorded, processed, summarized and reported within the time periods specified in the rules and forms of the SEC. We believe that any disclosure controls and procedures or internal controls and procedures, no matter how well conceived and operated, can provide only reasonable, not absolute, assurance that the objectives of the control system are met. In addition, as discussed above, the Sarbanes-Oxley Act requires, among other things, that we maintain effective disclosure controls and procedures and internal control over financial reporting. In particular, Section 404 of the Sarbanes-Oxley Act requires us to perform system and process evaluation and testing of our internal control over financial reporting to allow management to report on, and our independent registered public accounting firm to attest to, the effectiveness of our internal control over financial reporting. Pursuant to Section 404, we are required to provide an annual management report on the effectiveness of our internal control over financial reporting and we will also be required to include with such annual report an attestation report on internal controls over financial reporting issued by our independent registered public accounting firm. In the future, our independent registered public accounting firm may issue a report that is adverse in the event that we have not maintained effective internal controls over financial reporting, in all material respects. Any failure to maintain effective disclosure controls and internal control over financial reporting could have a material and adverse effect on our business, results of operations and financial condition and could cause a decline in the trading price of our common stock. These inherent limitations include the realities that judgments in decision-making can be faulty, and that breakdowns can occur because of simple error or mistake. Additionally, controls can be circumvented by the individual acts of some persons, by collusion of two or more people or by an unauthorized override of the controls. Accordingly, because of the inherent limitations in our control system, misstatements or insufficient disclosures due to error or fraud may occur and not be detected. 101 Table of ContentsÂ Our business and operations would suffer in the event of system failures. Despite our implementation of security measures, our internal computer systems and those of our CROs and other contractors and consultants are vulnerable to damage from computer viruses, unauthorized access, natural disasters, terrorism, war, telecommunication and electrical failures, cyber-attacks or cyber-intrusions over the Internet, attachments to emails, persons inside our organization, or persons with access to systems inside our organization. The risk of a security breach or disruption, particularly through cyber-attacks or cyber intrusion, including by computer hackers, foreign governments, and cyber terrorists, has generally increased as the number, intensity and sophistication of attempted attacks and intrusions from around the world have increased. If such an event were to occur and cause interruptions in our operations, it could result in a material disruption of our product candidate development programs. For example, the loss of clinical trial data from completed, ongoing, or planned clinical trials could result in delays in our regulatory approval efforts and significantly increase our costs to recover or reproduce the data. To the extent that any disruption or security breach were to result in a loss of or damage to our data or applications, or inappropriate disclosure of personal, confidential, or proprietary information, we could incur liability and the further development of any of our product candidates could be delayed. Environmental, social and governance matters may impact our business and reputation. Governmental authorities, non-governmental organizations, customers, investors, external stakeholders and employees are increasingly sensitive to environmental, social and governance, or ESG, concerns, such as diversity and inclusion, climate change, water use, recyclability or recoverability of packaging, and plastic waste. This focus on ESG concerns may lead to new requirements that could result in increased costs associated with developing, manufacturing and distributing our products. Our ability to compete could also be affected by changing customer preferences and requirements, such as growing demand for more environmentally friendly products, packaging or supplier practices, or by failure to meet such customer expectations or demand. While we strive to improve its ESG performance, we risk negative stockholder reaction, including from proxy advisory services, as well as damage to its brand and reputation, if we do not act responsibly, or if we are perceived to not be acting responsibly in key ESG areas, including equitable access to medicines and vaccines, product quality and safety, diversity and inclusion, environmental stewardship, support for local communities, corporate governance and transparency, and addressing human capital factors in our operations. If we do not meet the ESG expectations of its investors, customers and other stakeholders, we could experience reduced demand for its products, loss of customers, and other negative impacts on our business and results of operations. RISKS RELATED TO OWNERSHIP OF OUR COMMON STOCK An active trading market for our common stock may not be sustained. In November 2015, we closed our initial public offering. Prior to our initial public offering, there was no public market for shares of our common stock. Although we have completed our initial public offering and shares of our common stock are listed and trading on The Nasdaq Global Market, an active trading market for our shares may not be sustained. If an active market for our common stock does not continue, it may be difficult for our stockholders to sell their shares without depressing the market price for the shares or sell their shares at or above the prices at which they acquired their shares or sell their shares at the time they would like to sell. Any inactive trading market for our common stock may also impair our ability to raise capital to continue to fund our operations by selling shares. 102 Table of ContentsÂ The market price of our common stock may be highly volatile. The trading price of our common stock is likely to be highly volatile. For example, in 2019, we experienced an extraordinary level of appreciation in our stock price. Such levels of gain are unlikely to continue in the future. Since then we have seen both significant appreciations and depreciations in our stock price. As a result of this volatility, investors may not be able to sell their common stock at or above the price paid for the shares. The market price for our common stock may be influenced by many factors, including: â€¢the commercial success of our products; â€¢delays in the commencement, enrollment, and ultimate completion, of our planned and ongoing Phase 3 clinical trials for our product candidates; â€¢any delay or refusal on the part of the FDA in approving an NDA for any of our current and future product candidates; â€¢operating and stock price performance of other companies that investors deem comparable to ours; â€¢recommendations by securities analysts; â€¢news relating to our industry as a whole and news relating to trends in our markets; â€¢results of clinical trials of any of our current and future product candidates or those of our competitors; â€¢actual or anticipated variations in quarterly or annual operating results; â€¢failure to meet or exceed financial projections we provide to the public, if any; â€¢failure to meet or exceed the estimates and projections of the investment community, including securities analysts; â€¢introduction of competitive products or technologies; â€¢changes or developments in laws or regulations applicable to our product candidates; â€¢the perception of the pharmaceutical industry by the public, legislatures, regulators, and the investment community; â€¢general economic and market conditions and overall fluctuations in U.S. equity markets; â€¢data or security breaches; â€¢developments concerning our sources of manufacturing supply, warehousing, and inventory control; â€¢disputes or other developments relating to patents or other proprietary rights; â€¢additions or departures of key scientific or management personnel; â€¢announcements of investigations or regulatory scrutiny of our operations or lawsuits filed against us; â€¢capital commitments; â€¢investorsâ€™ general perception of our company and our business; 103 Table of ContentsÂ â€¢announcements and expectations of additional financing efforts, including the issuance of debt, equity or convertible securities; â€¢sales of our common stock, including sales by our directors and officers or significant stockholders; â€¢changes in the market valuations of companies similar to us; â€¢announcements by us or our competitors of significant acquisitions, strategic partnerships, or divestitures; â€¢general conditions or trends in our industry; and â€¢the other factors described in this â€¢Risk Factorsâ€¢ section. In addition, the stock market in general, and the market for mid-cap pharmaceutical and biotechnology companies in particular, have experienced extreme price and volume fluctuations that have often been unrelated or disproportionate to the operating performance of these companies. Broad market and industry factors may negatively affect the market price of our common stock, regardless of our actual operating performance. If equity research analysts do not publish research or reports, or publish unfavorable research or reports, about us, our business, or our market, our stock price and trading volume could decline. The trading market for our common stock is influenced by the research and reports that equity research analysts publish about us and our business. We do not have any control over the equity research analysts that provide research coverage of our common stock or the content and opinions included in their reports. The price of our stock could decline if one or more equity research analysts downgrades our stock or issue other unfavorable commentary or research. If one or more equity research analysts ceases coverage of our company or fails to publish reports on us regularly, demand for our stock could decrease, which in turn could cause our stock price or trading volume to decline. Our quarterly operating results may fluctuate significantly. We expect our operating results to be subject to quarterly fluctuations. Our net loss and other operating results will be affected by numerous factors, including: â€¢the commercial success of our products; â€¢whether the FDA requires us to complete additional, unanticipated studies, tests, or other activities prior to approving any of our current and future product candidates, which may delay any such approval; â€¢our ability to identify and enter into thirdâ€¢party manufacturing arrangements capable of manufacturing any of our current or future product candidates in commercial quantities; â€¢our execution of other collaborative, licensing, or similar arrangements and the timing of payments we may make or receive under these arrangements; â€¢variations in the level of expenses related to our future development programs; â€¢any product liability or intellectual property infringement lawsuit in which we may become involved; â€¢regulatory developments affecting our current products, or the products of our competitors; and â€¢the level of underlying demand for our products 104 Table of ContentsÂ If our quarterly or annual operating results fall below the expectations of investors or securities analysts, the price of our common stock could decline substantially. Furthermore, any quarterly or annual fluctuations in our operating results may, in turn, cause the price of our stock to fluctuate substantially. We believe that quarterly comparisons of our financial results are not necessarily meaningful and should not be relied upon as an indication of our future performance. Raising additional funds by issuing securities may cause dilution to existing stockholders and raising funds through lending and licensing arrangements may restrict our operations or require us to relinquish proprietary rights. We may finance our cash needs through a combination of equity offerings, debt financings, grants, and license and development agreements in connection with any collaborations until such time, if ever, as our product sales are sufficient to meet our cash needs. To the extent that we raise additional capital by issuing

equity securities, our existing stockholdersâ€™ ownership will be diluted, and the terms of these securities may include liquidation or other preferences that adversely affect your rights as a common stockholder. Debt financing and preferred equity financing, if available, may involve agreements that include covenants limiting or restricting our ability to take specific actions, such as incurring additional debt, making capital expenditures, or declaring dividends. If we raise additional funds through collaborations, strategic alliances, or marketing, distribution or licensing arrangements with third parties, we may have to relinquish valuable rights to our technologies, future revenue streams, research programs, or product candidates or grant licenses on terms that may not be favorable to us. Any debt financing we enter into may involve covenants that restrict our operations. These restrictive covenants may include limitations on additional borrowing and specific restrictions on the use of our assets as well as prohibitions on our ability to create liens, pay dividends, redeem our stock, or make investments. If we are unable to raise additional funds through equity or debt financings when needed, we may be required to delay, limit, reduce, or terminate our product development or future commercialization efforts or grant rights to develop and market product candidates that we would otherwise prefer to develop and market ourselves. Our principal stockholders and management own a significant percentage of our stock and may be able to exert significant control over matters subject to stockholder approval. As of July 29, 2024, our executive officers, directors, and 5% stockholders and their affiliates beneficially owned an aggregate of approximately 43% of our outstanding common stock. As a result, these stockholders have significant influence and may be able to determine all matters requiring stockholder approval. For example, these stockholders may be able to control elections of directors, amendments of our organizational documents, or approval of any merger, sale of assets, or other major corporate transaction. This concentration of ownership could delay or prevent any acquisition of our company on terms that other stockholders may desire and may adversely affect the market price of our common stock. Some of these persons or entities may have interests different than our other stockholders. For example, these stockholders, if they acted together, could significantly influence all matters requiring approval by our stockholders, including the election of directors and the approval of mergers or other business combination transactions. These stockholders may be able to determine all matters requiring stockholder approval. The interests of these stockholders may not always coincide with our interests or the interests of other stockholders. This may also prevent or discourage unsolicited acquisition proposals or offers for our common stock that other stockholders may feel are in their best interest and our large stockholders may act in a manner that advances their best interests and not necessarily those of other stockholders, including seeking a premium value for their common stock, and might affect the prevailing market price for our common stock. Sales of a substantial number of shares of our common stock in the public market by our existing stockholders could cause our stock price to fall. Sales of a substantial number of shares of our common stock in the public market or the perception that these sales might occur, could depress the market price of our common stock and could impair our ability to raise adequate capital through the sale of additional equity securities. We are unable to predict the effect that sales may have on the prevailing market price of our common stock. 105 Table of Contents

As of July 29, 2024, we have outstanding 48,000,205 shares of common stock and 10,021,978 shares of common stock equivalents that would increase the number of common stock outstanding if these instruments were exercised or converted, including stock options to purchase common stock based on vesting requirements and warrants to purchase common stock, as well as outstanding restricted stock units. Of our currently outstanding shares of common stock, 40,407,846 are freely tradable. The remainder of the outstanding shares of common stock are held by our affiliates and may be considered â€œcontrol securitiesâ€ for purposes of Rule 144 under the Securities Act. In addition, we have filed, or will soon file, one or more registration statements on Form Sâ€“8 registering the issuance of an aggregate of 15,600,010 shares of common stock subject to options or other equity awards issued or reserved for issuance under our 2015 Omnibus Incentive Compensation Plan and 1,100,000 shares of common stock reserved for issuance under our 2023 Employee Stock Purchase Plan. Shares registered under registration statements on Form S-8 will be available for sale in the public market subject to vesting arrangements and exercise of options, the lock up agreements described above and the restrictions of Rule 144 in the case of our affiliates. Our management will have broad discretion in the use of the net proceeds from our capital raises, including the proceeds from sales pursuant to our Sales Agreement, and may not use them effectively. Our management will have broad discretion in the application of the net proceeds from our capital raises, which we refer to as our Capital Raises, including the proceeds from sales pursuant to the March 2022 Sales Agreement with Leerink, which provides for the sale of up to \$250.0 million of our common stock from time to time, and our stockholders will not have the opportunity as part of their investment decision to assess whether the net proceeds from our Capital Raises are being used appropriately. Our stockholders may not agree with our decisions, and our use of the proceeds may not yield any return on investment for our stockholders. Because of the number and variability of factors that will determine our use of the net proceeds from our Capital Raises their ultimate use may vary substantially from their currently intended use. Our failure to apply the net proceeds of our Capital Raises effectively could compromise our ability to pursue our growth strategy and we might not be able to yield a significant return, if any, on our investment of those net proceeds. Our stockholders will not have the opportunity to influence our decisions on how to use our net proceeds from our Capital Raises. Pending their use, we may invest the net proceeds from our Capital Raises in short-term, investment-grade, interest-bearing instruments and U.S. government securities. These temporary investments are not likely to yield a significant return. The use of our net operating loss carryforwards and research tax credits may be limited. Our net operating loss carryforwards and any future research and development tax credits may expire and not be used. As of December 31, 2023, we had U.S. federal net operating loss, NOL, carryforwards of approximately \$547.1 million and foreign NOL carryforwards of \$0.7 million. U.S. federal net operating loss carry forwards amounting to \$59.8 million generated before the 2018 tax year will start expiring beginning 2032, if we have not used them prior to that time, and the U.S. federal net operating losses of approximately \$487.3 million generated in 2018 and later have an indefinite carryforward period. Net operating loss carry forwards arising in taxable years ending after December 31, 2017, are no longer subject to expiration under the Internal Revenue Code of 1986, as amended, or the Code. Additionally, our ability to use any net operating loss and credit carryforwards to offset taxable income or tax, respectively, in the future will be limited under Sections 382 and 383 of the Code, respectively, if we have a cumulative change in ownership of more than 50% within a three-year period. The completion of our initial public offering, together with our other public and private Capital Raises, and other transactions that have occurred, may trigger, or may have already triggered, such an ownership change. In addition, since we may need to raise additional funding to finance our operations, we may undergo further ownership changes in the future. In the event a change of ownership occurs, we will be limited regarding the amount of net operating loss carryforwards and research tax credits that could be utilized annually in the future to offset taxable income or tax, respectively. Any such annual limitation may significantly reduce the utilization of the net operating loss carryforwards and research tax credits before they expire. In addition, certain states have suspended use of net operating loss carryforwards for certain taxable years, and other states are considering similar measures. As a result, we may incur higher state income tax expense in the future. Depending on our future tax position, continued suspension of our ability to use net operating loss carryforwards in states in which we are subject to income tax could have an adverse impact on our results of operations and financial condition. 106 Table of Contents

Because we do not intend to pay dividends on our common stock, returns for our stockholders will be limited to any increase in the value of our stock. We have never declared or paid any cash dividends on our capital stock. In addition, the terms of our existing credit facility with Hercules preclude us from paying cash dividends without Herculesâ€™ consent. We currently intend to retain all available funds and any future earnings to support our operations and finance the growth and development of our business and do not anticipate declaring or paying any cash dividends on our common stock for the foreseeable future. Any return to stockholders will therefore be limited to the appreciation of their stock, if any. Investors seeking cash dividends should not purchase our common stock. Provisions in our corporate charter documents and under Delaware law may prevent or frustrate attempts by our stockholders to change our management and hinder efforts to acquire a controlling interest in us, and the market price of our common stock may be lower as a result. There are provisions in our amended and restated certificate of incorporation and amended and restated bylaws that may make it difficult for a third party to acquire, or attempt to acquire, control of our company, even if a change in control was considered favorable by you and other stockholders. For example, our Board will have the authority to issue up to 10,000,000 shares of preferred stock and to fix the price, rights, preferences, privileges, and restrictions of the preferred stock without any further vote or action by our stockholders. We do not currently have any preferred stock outstanding. The issuance of shares of preferred stock may delay or prevent a change in control transaction. As a result, the market price of our common stock and the voting and other rights of our stockholders may be adversely affected. An issuance of shares of preferred stock may result in the loss of voting control to other stockholders. In addition, we are subject to the antiâ€œtakeover provisions of Section 203 of the Delaware General Corporation Law, or DGCL, which regulates corporate acquisitions by prohibiting Delaware corporations from engaging in specified business combinations with particular stockholders of those companies. These provisions could discourage potential acquisition proposals and could delay or prevent a change in control transaction. They could also have the effect of discouraging others from making tender offers for our common stock, including transactions that may be in your best interests. These provisions may also prevent changes in our management or limit the price that investors are willing to pay for our stock. Our amended and restated certificate of incorporation designates the Court of Chancery of the State of Delaware as the sole and exclusive forum for certain types of actions and proceedings that may be initiated by our stockholders, which could limit our stockholdersâ€™ ability to obtain a favorable judicial forum for disputes with us or our directors, officers or employees. Our amended and restated certificate of incorporation provides that, unless we consent in writing to the selection of an alternate forum, the Court of Chancery of the State of Delaware will be the sole and exclusive forum for (1) any derivative action or proceeding brought on our behalf, (2) any action asserting a claim of breach of a fiduciary duty owed by any of our directors, officers, employees or agents to us or our stockholders, (3) any action asserting a claim arising pursuant to the DGCL, or (4) any other action asserting a claim against us that is governed by the internal affairs doctrine, in each such case subject to such Court of Chancery having personal jurisdiction over the indispensable parties named as defendants therein. 107 Table of Contents

Any person or entity purchasing or otherwise acquiring any interest in shares of our capital stock shall be deemed to have notice of and to have consented to the provisions of our amended and restated certificate of incorporation described above. This choice of forum provision may limit a stockholderâ€™s ability to bring a claim in a judicial forum that it finds favorable for disputes with us or our directors, officers, or other employees or agents, which may discourage such lawsuits against us and our directors, officers, employees, and agents. Further, this choice of forum provision does not preclude or contract the scope of exclusive federal or concurrent jurisdiction for any actions brought under the Securities Act or the Exchange Act. Section 27 of the Exchange Act creates exclusive federal jurisdiction over all suits brought to enforce any duty or liability created by the Exchange Act or the rules and regulations thereunder. As a result, the exclusive forum provision will not apply to suits brought to enforce any duty or liability created by the Exchange Act or any other claim for which the federal courts have exclusive jurisdiction. In addition, Section 22 of the Securities Act creates concurrent jurisdiction for federal and state courts over all suits brought to enforce any duty or liability created by the Securities Act or the rules and regulations thereunder. As a result, the exclusive forum provision will not apply to suits brought to enforce any duty or liability created by the Securities Act or any other claim for which the federal and state courts have concurrent jurisdiction. Accordingly, our exclusive forum provision will not relieve us of our duties to comply with the federal securities laws and the rules and regulations thereunder, and our stockholders will not be deemed to have waived our compliance with these laws, rules and regulations. If a court were to find these provisions of our amended and restated certificate of incorporation inapplicable to, or unenforceable in respect of, one or more of the specified types of actions or proceedings, we may incur additional costs associated with resolving such matters in other jurisdictions, which could adversely affect our business, financial condition, and results of operations. Even if we are successful in defending against these claims, litigation could result in substantial costs and be a distraction to management and other employees. ITEM 5. OTHER INFORMATION

During the second quarter of 2024, the following Rule 10b5-1 trading arrangements (as defined in Item 408(a)(1)(i) of Regulation S-K) and non-Rule 10b5-1 trading arrangements (as defined in Item 408(c) of Regulation S-K) intended to satisfy the affirmative defense of Rule 10b5-1(c) of the Exchange Act were adopted or terminated by our directors and/or executive officers:

Adopted Name Title Date of Adoption of Rule 10b5-1 Trading Arrangement(1) Scheduled Expiration Date of Rule 10b5-1 Trading Arrangement Aggregate Number of Securities to Be Sold Mark Jacobson Chief Operating Officer May 10, 2024(2) February 13, 2025 Up to 80,575A shares of common stock pursuant to the exercise of non-qualified stock options

(1) Date of adoption of Rule 10b5-1 trading arrangements is in accordance with both the Companyâ€™s insider trading policy and applicable SEC rules and regulations. (2) The first trade pursuant to the Rule 10b5-1 trading arrangement will be, in accordance with both the Companyâ€™s insider trading policy and applicable SEC rules and regulations, on a date after the date of adoption of the Rule 10b5-1 trading arrangement.108 Table of ContentsA Terminated Name Title Date of TerminationA of Rule 10b5-1 Trading Arrangement(1) Scheduled Expiration Date of Rule 10b5-1 Trading Arrangement Aggregate Number of Securities to Be Sold Mark Jacobson Chief Operating Officer May 10, 2024(2) December 29, 2024 Up to 86,094A shares of common stock pursuant to the exercise of non-qualified stock options immediately prior to the 10-year expiration dates of such options in 2024(3) (1) Date of termination of Rule 10b5-1 trading arrangements is in accordance with both the Companyâ€™s insider trading policy and applicable SEC rules and regulations.(2) The date of adoption of this Rule 10b5-1 trading arrangement was August 15, 2023. The first trade pursuant to the Rule 10b5-1 trading arrangement was, in accordance with both the Companyâ€™s insider trading policy and applicable SEC rules and regulations, on a date after the date of adoption of the Rule 10b5-1 trading arrangement.(3) Prior to its termination, 38,355 shares of common stock pursuant to the exercise of non-qualified stock options were sold pursuant to this Rule 10b5-1 trading arrangement. 109 Table of ContentsA ITEM 6. EXHIBITS

The exhibits filed as part of this Quarterly Report on Form 10-Q are set forth on the Exhibit Index, which is incorporated herein by reference. INDEX OF EXHIBITS A Exhibit Number Description A A 31.1** A Certification of Principal Executive Officer pursuant to Rule 13a-14(a)/15d-14(a), as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002. A A 31.2** A Certification of Principal Financial Officer pursuant to Rule 13a-14(a)/15d-14(a), as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002. A A 32.1** A Certification of Principal Executive Officer pursuant to 18 U.S.C. A§1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 (furnished herewith). A A 32.2** A Certification of Principal Financial Officer pursuant to 18 U.S.C. A§1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 (furnished herewith). A A 101.INS A Inline XBRL Instance Document (the instance document does not appear in the Interactive Data File because its XBRL tags are embedded within the Inline XBRL document) A A 101.SCH A Inline XBRL Taxonomy Extension Schema With Embedded Linkbase Documents A A 104 A Cover Page Interactive Data File (formatted as inline XBRL with applicable taxonomy extension information contained in Exhibits 101.) A A **Filed herewith. 110 Table of ContentsA SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned thereunto duly authorized. A AXSOME THERAPEUTICS, INC. A A Date: August 5, 2024 By /s/ Herriot Tabuteau, M.D. A A Herriot Tabuteau, M.D. A A President and Chief Executive Officer A A (Principal Executive Officer) A A Date: August 5, 2024 By /s/ Nick Pizzie A A Nick Pizzie A A Chief Financial Officer A A (Principal Financial and Accounting Officer) A 111 EX-31.1 2 axsm-ex31.1.htm EX-31.1 EX-31.1 A Exhibit 31.1 A CERTIFICATION OF PERIODIC REPORT PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002 A I, Herriot Tabuteau, M.D., certify that: A 1.â€œI have reviewed this quarterly report on Form 10-Q of Axsome Therapeutics, Inc.; A 2.â€œBased on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report; A 3.â€œBased on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report; A 4.â€œThe registrantâ€™s other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have: A a)â€œDesigned such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared; A b)â€œDesigned such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles; A c)â€œEvaluated the effectiveness of the registrantâ€™s disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and A d)â€œDisclosed in this report any change in the registrantâ€™s internal control over financial reporting that occurred during the registrantâ€™s most recent fiscal quarter (the registrantâ€™s fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrantâ€™s internal control over financial reporting; and A 5.â€œThe registrantâ€™s other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrantâ€™s auditors and the audit committee of the

registrantâ€™s board of directors (or persons performing the equivalent functions):

À a)â€œAll significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrantâ€™s ability to record, process, summarize and report financial information; and

b)â€œAny fraud, whether or not material, that involves management or other employees who have a significant role in the registrantâ€™s internal control over financial reporting.

À À Date: August 5, 2024 /s/ Herriot Tabuteau, M.D. À Herriot Tabuteau, M.D. À Chief Executive Officer À (Principal Executive Officer) À À EX-31.2 3 axsm-ex31 2.htm EX-31.2 EX-31.2 À Exhibit 31.2 À CERTIFICATION OF PERIODIC REPORT PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002 À I, Nick Pizzie, certify that: À 1.â€œI have reviewed this quarterly report on Form 10-Q of Axsome Therapeutics, Inc.; À 2.â€œBased on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report; À 3.â€œBased on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report; À 4.â€œThe registrantâ€™s other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have: À a)â€œDesigned such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared; À b)â€œDesigned such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles; À c)â€œEvaluated the effectiveness of the registrantâ€™s disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and À d)â€œDisclosed in this report any change in the registrantâ€™s internal control over financial reporting that occurred during the registrantâ€™s most recent fiscal quarter (the registrantâ€™s fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrantâ€™s internal control over financial reporting; and À 5.â€œThe registrantâ€™s other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrantâ€™s auditors and the audit committee of the registrantâ€™s board of directors (or persons performing the equivalent functions): À a)â€œAll significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrantâ€™s ability to record, process, summarize and report financial information; and À b)â€œAny fraud, whether or not material, that involves management or other employees who have a significant role in the registrantâ€™s internal control over financial reporting.

À À Date: August 5, 2024 /s/ Nick Pizzie À Nick Pizzie À Chief Financial Officer À (Principal Financial and Accounting Officer) À À EX-32.1 4 axsm-ex32 1.htm EX-32.1 EX-32.1 À Exhibit 32.1 À STATEMENT OF PRINCIPAL EXECUTIVE OFFICER OF AXSOME THERAPEUTICS, INC.PURSUANT TO 18 U.S.C. SECTION 1350.AS ADOPTED PURSUANT TOSECTION 906 OF THE SARBANES-OXLEY ACT OF 2002 À In connection with the quarterly report of Axsome Therapeutics, Inc. (the â€œCompanyâ€œ) on Form 10-Q for the quarter ended June 30, 2024 as filed with the Securities and Exchange Commission (the â€œReportâ€œ), I, Herriot Tabuteau, M.D., Chief Executive Officer of the Company, certify, pursuant to 18 U.S.C. Â§1350, as adopted pursuant to Â§906 of the Sarbanes-Oxley Act of 2002, that, based on my knowledge: À 1) The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934, as amended; and À 2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company. À À Date: August 5, 2024 /s/ Herriot Tabuteau, M.D. À Herriot Tabuteau, M.D. Chief Executive Officer(Principal Executive Officer) À À EX-32.2 5 axsm-ex32 2.htm EX-32.2 EX-32.2 À Exhibit 32.2 À STATEMENT OF PRINCIPAL FINANCIAL OFFICER OFAXSOME THERAPEUTICS, INC.PURSUANT TO 18 U.S.C. SECTION 1350.AS ADOPTED PURSUANT TOSECTION 906 OF THE SARBANES-OXLEY ACT OF 2002 À In connection with the quarterly report of Axsome Therapeutics, Inc. (the â€œCompanyâ€œ) on Form 10-Q for the quarter ended June 30, 2024 as filed with the Securities and Exchange Commission (the â€œReportâ€œ), I, Nick Pizzie, Chief Financial Officer of the Company, certify, pursuant to 18 U.S.C. Â§1350, as adopted pursuant to Â§906 of the Sarbanes-Oxley Act of 2002, that, based on my knowledge: À 1) The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934, as amended; and À 2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company. À À Date: August 5, 2024 /s/ Nick Pizzie À Nick PizzieChief Financial Officer(Principal Financial and Accounting Officer) À À EX-101.SCH 6 axsm-20240630.xsd XBRL TAXONOMY EXTENSION SCHEMA WITH EMBEDDED LINKBASES DOCUMENT 100000 - Document - Document and Entity Information link:presentationLink link:calculationLink link:definitionLink 100010 - Statement - Consolidated Balance Sheets link:presentationLink link:calculationLink link:definitionLink 100020 - Disclosure - Commitments and Contingencies - Schedule of Future Minimum Lease Payments of Leases (Details) 2 link:presentationLink link:calculationLink link:definitionLink 100030 - Statement - Consolidated Balance Sheets (Parenthetical) link:presentationLink link:calculationLink link:definitionLink 100040 - Statement - Consolidated Statements of Operations link:presentationLink link:calculationLink link:definitionLink 100050 - Statement - Consolidated Statements of Stockholders' Equity link:presentationLink link:calculationLink link:definitionLink 100060 - Statement - Consolidated Statements of Cash Flows link:presentationLink link:calculationLink link:definitionLink 995455 - Disclosure - Nature of Business and Basis of Presentation link:presentationLink link:calculationLink link:definitionLink 995465 - Disclosure - Summary of Significant Accounting Policies link:presentationLink link:calculationLink link:definitionLink 995475 - Disclosure - Accounts Receivable, net link:presentationLink link:calculationLink link:definitionLink 995485 - Disclosure - Inventory link:presentationLink link:calculationLink link:definitionLink 995495 - Disclosure - Intangible Asset link:presentationLink link:calculationLink link:definitionLink 995505 - Disclosure - Fair Value of Financial Instruments link:presentationLink link:calculationLink link:definitionLink 995515 - Disclosure - Accrued Expenses and Other Current Liabilities link:presentationLink link:calculationLink link:definitionLink 995525 - Disclosure - Loan and Security Agreement link:presentationLink link:calculationLink link:definitionLink 995535 - Disclosure - Commitments and Contingencies link:presentationLink link:calculationLink link:definitionLink 995545 - Disclosure - Stockholders' Equity link:presentationLink link:calculationLink link:definitionLink 995555 - Disclosure - Warrants link:presentationLink link:calculationLink link:definitionLink 995565 - Disclosure - Net Loss per Common Share link:presentationLink link:calculationLink link:definitionLink 995575 - Disclosure - Revenues link:presentationLink link:calculationLink link:definitionLink 995585 - Disclosure - License Agreements link:presentationLink link:calculationLink link:definitionLink 995595 - Disclosure - Royalty Agreements link:presentationLink link:calculationLink link:definitionLink 995605 - Disclosure - Income Taxes link:presentationLink link:calculationLink link:definitionLink 995615 - Disclosure - Related Party Transactions link:presentationLink link:calculationLink link:definitionLink 995625 - Disclosure - Summary of Significant Accounting Policies (Policies) link:presentationLink link:calculationLink link:definitionLink 995635 - Disclosure - Accounts Receivable, net (Tables) link:presentationLink link:calculationLink link:definitionLink 995645 - Disclosure - Inventory (Tables) link:presentationLink link:calculationLink link:definitionLink 995655 - Disclosure - Intangible Asset (Tables) link:presentationLink link:calculationLink link:definitionLink 995665 - Disclosure - Fair Value of Financial Instruments (Tables) link:presentationLink link:calculationLink link:definitionLink 995675 - Disclosure - Accrued Expenses and Other Current Liabilities (Tables) link:presentationLink link:calculationLink link:definitionLink 995685 - Disclosure - Loan and Security Agreement (Tables) link:presentationLink link:calculationLink link:definitionLink 995695 - Disclosure - Commitments and Contingencies (Tables) link:presentationLink link:calculationLink link:definitionLink 995705 - Disclosure - Stockholders' Equity (Tables) link:presentationLink link:calculationLink link:definitionLink 995715 - Disclosure - Warrants (Tables) link:presentationLink link:calculationLink link:definitionLink 995725 - Disclosure - Net Loss per Common Share (Tables) link:presentationLink link:calculationLink link:definitionLink 995735 - Disclosure - Revenues (Tables) link:presentationLink link:calculationLink link:definitionLink 995745 - Disclosure - Income Taxes (Tables) link:presentationLink link:calculationLink link:definitionLink 995755 - Disclosure - Nature of Business and Basis of Presentation - Additional Information (Details) link:presentationLink link:calculationLink link:definitionLink 995765 - Disclosure - Summary of Significant Accounting Policies - Additional Information (Details) link:presentationLink link:calculationLink link:definitionLink 995775 - Disclosure - Accounts Receivable, net - Schedule of Accounts Receivable, Net (Details) link:presentationLink link:calculationLink link:definitionLink 995785 - Disclosure - Accounts receivable, net Additional Information (Details) link:presentationLink link:calculationLink link:definitionLink 995795 - Disclosure - Inventory - Schedule of Inventory (Details) link:presentationLink link:calculationLink link:definitionLink 995805 - Disclosure - Inventory - Additional Information (Details) link:presentationLink link:calculationLink link:definitionLink 995815 - Disclosure - Inventory - Summary of Balance Sheet Classification of Inventory (Details) link:presentationLink link:calculationLink link:definitionLink 995825 - Disclosure - Intangible Asset - Schedule of Carrying Amount of Intangible Asset (Details) link:presentationLink link:calculationLink link:definitionLink 995835 - Disclosure - Intangible Asset - Schedule of Finite Lived Intangible Assets Future Amortization Expenses (Details) link:presentationLink link:calculationLink link:definitionLink 995845 - Disclosure - Fair Value of Financial Instruments - Additional Information (Details) link:presentationLink link:calculationLink link:definitionLink 995855 - Disclosure - Fair Value of Financial Instruments - Schedule of Fair Value of Financial Instruments Measured on Recurring Basis (Details) link:presentationLink link:calculationLink link:definitionLink 995865 - Disclosure - Fair Value of Financial Instruments - Schedule of Changes in Fair Value of Contingent Consideration Liabilities (Details) link:presentationLink link:calculationLink link:definitionLink 995875 - Disclosure - Fair Value of Financial Instruments - Schedule of Fair Value Measurements of Contingent Consideration Recurring Include Significant Unobservable Inputs (Details) link:presentationLink link:calculationLink link:definitionLink 995885 - Disclosure - Accrued Expenses and Other Current Liabilities - Schedule of Accrued Expenses and Other Current Liabilities (Details) link:presentationLink link:calculationLink link:definitionLink 995895 - Disclosure - Loan and Security Agreement - Additional Information (Details) link:presentationLink link:calculationLink link:definitionLink 995905 - Disclosure - Loan and Security Agreement - Schedule of Outstanding Debt and Unamortized Debt Discount Balances (Details) link:presentationLink link:calculationLink link:definitionLink 995915 - Disclosure - Loan and Security Agreement - Summary of Interest Expense and Amortization of Final Payment Fee, Amortization of Debt Discount Related to Issuance Costs and Warrants (Details) link:presentationLink link:calculationLink link:definitionLink 995925 - Disclosure - Loan and Security Agreement - Schedule of Principal Payments (Details) link:presentationLink link:calculationLink link:definitionLink 995935 - Disclosure - Commitments and Contingencies - Additional Information (Details) link:presentationLink link:calculationLink link:definitionLink 995945 - Disclosure - Commitments and Contingencies - Schedule of Lease Expense (Details) link:presentationLink link:calculationLink link:definitionLink 995955 - Disclosure - Commitments and Contingencies - Schedule of Future Minimum Lease Payments of Leases (Details) link:presentationLink link:calculationLink link:definitionLink 995965 - Disclosure - Stockholders' Equity - Additional Information (Details) link:presentationLink link:calculationLink link:definitionLink 995975 - Disclosure - Stockholders' Equity - Summary of Stock Option Activity (Details) link:presentationLink link:calculationLink link:definitionLink 995985 - Disclosure - Stockholders' Equity - Schedule of RSU Activity (Details) link:presentationLink link:calculationLink link:definitionLink 995995 - Disclosure - Stockholders' Equity - Schedule of Stock-Based Compensation Expense Recognized (Details) link:presentationLink link:calculationLink link:definitionLink 996005 - Disclosure - Warrants - Schedule of Warrant Activity (Details) link:presentationLink link:calculationLink link:definitionLink 996015 - Disclosure - Warrants - Additional Information (Details) link:presentationLink link:calculationLink link:definitionLink 996025 - Disclosure - Net Loss per Common Share - Computation of Basic and Diluted Net Loss per Common Share (Details) link:presentationLink link:calculationLink link:definitionLink 996035 - Disclosure - Net Loss per Common Share Potentially Dilutive Securities (Details) link:presentationLink link:calculationLink link:definitionLink 996045 - Disclosure - Revenues - Schedule of Disaggregation of Product Sales (Details) link:presentationLink link:calculationLink link:definitionLink 996055 - Disclosure - Revenues - Additional Information (Details) link:presentationLink link:calculationLink link:definitionLink 996065 - Disclosure - License Agreements - Additional Information (Details) link:presentationLink link:calculationLink link:definitionLink 996075 - Disclosure - Royalty Agreements - Additional Information (Details) link:presentationLink link:calculationLink link:definitionLink 996085 - Disclosure - Income Taxes - Schedule of Loss Before Income Taxes and Effective Tax Rates (Details) link:presentationLink link:calculationLink link:definitionLink 996095 - Disclosure - Income Taxes - Additional Information (Details) link:presentationLink link:calculationLink link:definitionLink 996105 - Disclosure - Related Party Transactions - Additional Information (Details) link:presentationLink link:calc

product candidate portfolio. Number Of Late Stage Product Candidates Number of late-stage candidates not yet approved in Company's product candidate portfolio Cash Equivalents, at Carrying Value Cash Equivalents Cash Equivalents, at Carrying Value, Total Warrant [Member] Warrants Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Forfeitures in Period Number of shares, Forfeited/Canceled Increase (Decrease) in Operating Capital [Abstract] Changes in operating assets and liabilities: Advertising costs Advertising Expense Common Stock, Shares, Issued Balance (in shares) Balance (in shares) Common stock, shares issued Number of common shares Common Stock, Shares, Issued, Total Prepayment Occurs On or After February 1, 2024 but Prior to February 1, 2025 Debt Instrument Prepayment Occurring On or After February One Two Thousand Twenty Four But Prior to February One Two Thousand Twenty Five [Member] Debt instrument prepayment occurring on or after february one two thousand twenty four but prior to february one two thousand twenty five, Fair value of warrant liability. Fair Value Of Warrant Liability Warrant liability Share-Based Payment Arrangement, Expensed and Capitalized, Amount [Table] Schedule Of Employee Service Share Based Compensation Allocation Of Recognized Period Costs [Table] Fair Value Measurement Inputs and Valuation Techniques [Table] Revenue Discount rate Measurement Input, Revenue Multiple [Member] Long-Term Debt, Maturity, Year Four 2027 Tranche Two Sub Tranche One Tranche two sub tranche one. Tranche Two Sub Tranche One [Member] Income Statement [Abstract] Entity Address, State or Province Entity Address, State or Province The final payment fee at extinguishment of debt. Extinguishment Of Debt Fee Amount Final payment fee Issuance of common stock upon exercise of options and under employee stock purchase plan Stock Issued During Period, Value, Employee Stock Purchase Plan Finance Lease, Liability, to be Paid, Year One 2025 Income (Loss) from Continuing Operations before Income Taxes, Noncontrolling Interest Loss before income taxes Loss before income taxes Class of Warrant or Right [Table] Contingent consideration Contingent Consideration [Member] Contingent consideration [Member]. Third Amendment To Loan and Security Agreement Third Amendment To Loan and Security Agreement [Member] Third amendment to loan and security agreement. The amount of future payments payable under the collaboration arrangement. Collaboration Arrangement Future Potential Payments Future milestone payments The minimum amount of market capital to be maintained under debt instruments. Long Term Debt Additional Drawn Covenant Minimum Market Capitalization Amount Minimum amount of market capital to be maintained Sharebased compensation arrangement by sharebased payment award other than option lapsed intrinsic value. Sharebased Compensation Arrangement by Sharebased Payment Award Other than Option Lapsed Intrinsic Value Intrinsic value lapsed Concentration Risk Type [Domain] Loss Contingencies [Table] Loss Contingencies [Table] Customer [Axis] 'Customer Concentration Risk Customer Concentration Risk [Member] Finite-Lived Intangible Asset, Expected Amortization, Year Three 2027 Liability Class [Axis] Minimum different from remaining percentage of cash flow Long Term Debt Different From Remaining Drawn Covenant Minimum Cash Flow Percentage Long term debt different from remaining drawn covenant minimum cash flow percentage. Raw materials Inventory, Raw Materials, Gross Payment of debt issuance costs Payments of Debt Issuance Costs Amortization of final payment fee Amortization of Debt Issuance Costs Amortization of debt issuance costs Cover [Abstract] Net loss per common share, basic Earnings Per Share, Basic Earnings Per Share, Basic, Total Fourth amendment to loan and security agreement. Fourth Amendment To Loan and Security Agreement [Member] Fourth Amendment To Loan and Security Agreement Lessee, Operating Lease, Option to Extend Lessee, operating lease, option to extend The fair value of outstanding warrants. Fair Value Of Warrants Fair value Operating expenses: Operating Expenses [Abstract] Term Loan Advances Other Than Tranche 1A Term Loan Advances Other Than Tranche One A [Member] Term loan advances other than tranche one A. Revenue milestones. Revenue Milestones Revenue milestones Finance Lease, Principal Payments Payments on principal portion of finance lease obligation Represents the prepayment of debt occurring prior to first anniversary of closing date. Debt Instrument Prepayment Occurring Prior To First Anniversary Of Closing Date [Member] Prepayment Occurs Prior To First Anniversary of Closing Date License Revenue License Fee License [Member] Represents information pertaining to AXS-02. Axs02 [Member] AXS-02 Share-Based Payment Arrangement, Expense Stock-based compensation expense Expense Advertising Costs Advertising Cost [Policy Text Block] Finance Lease, Weighted Average Discount Rate, Percent Weighted average discount rate Intangible Assets [Abstract] Intangible Assets Abstract. Loss in fair value of contingent consideration Change in fair value of contingent consideration Change In Fair Value Of Contingent Considerations Change in fair value of contingent considerations. Adjustment to fair value Retained Earnings (Accumulated Deficit) Accumulated deficit Accumulated deficit Retained Earnings (Accumulated Deficit), Total Retained Earnings (Accumulated Deficit), Beginning Balance Retained Earnings (Accumulated Deficit), Ending Balance Schedule of future minimum lease payments. Schedule of Future Minimum Lease Payments [Table Text Block] Schedule of Future Minimum Lease Payments of Leases Plan Name [Axis] Plan Name Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Outstanding, Number Number of shares, Outstanding, ending balance Number of shares, Outstanding, beginning balance Assets, Current [Abstract] Current assets: Tranche three sub tranche one. Tranche Three Sub Tranche One [Member] Tranche Three Sub Tranche One United States UNITED STATES Weighted average price at which warrants were issued. Warrants Issued In Period Weighted Average Exercise Price Issued Prior period adjustments for product sales resulting from changes in estimates Prior Period Adjustments For Product Sales Resulting From Changes in Estimates Prior period adjustments for product sales resulting from changes in estimates. Net Cash Provided by (Used in) Operating Activities Net cash used in operating activities Share-Based Compensation Arrangement by Share-Based Payment Award, Equity Instruments Other than Options, Forfeitures, Weighted Average Grant Date Fair Value Weighted average grant date fair value, Forfeited Royalty Expense Milestone payments or royalties Royalty expense Product and Service [Domain] Product and Service Lessee, Operating Lease, Term of Contract Operating lease, lease term Share-Based Compensation Arrangement by Share-Based Payment Award, Equity Instruments Other than Options, Outstanding, Weighted Average Remaining Contractual Terms Weighted average contractual term Sunosi and Auvelity. Sunosi and Auvelity [Member] Sunosi and Auvelity Property, Plant and Equipment, Net Equipment, net Property, Plant and Equipment, Net, Total Property, Plant and Equipment, Net, Beginning Balance Property, Plant and Equipment, Net, Ending Balance Lessee, Operating Lease, Liability, to be Paid, Year Four 2028 Net Cash Provided by (Used in) Operating Activities [Abstract] Cash flows from operating activities Fair Value, Recurring [Member] Schedule of fair value of financial instruments measured on a recurring basis Schedule of Fair Value, Assets and Liabilities Measured on Recurring Basis [Table Text Block] Common Stock, Par or Stated Value Per Share Common stock, par value Accrued royalties Accrued Royalties, Current Accounts Payable and Other Accrued Liabilities, Current Accrued expenses and other current liabilities Total Stock Options Operating Lease, Right-of-Use Asset, Statement of Financial Position [Extensible Enumeration] Intangible Asset Intangible Assets Disclosure [Text Block] Measurement Input Type [Domain] Taxes Payable, Current, Total Taxes Payable, Current Accrued taxes Accounts Receivable, net Accounts Receivable [Policy Text Block] Statement of Cash Flows [Abstract] Counterparty Name [Axis] Counterparty Name Underwriting discounts and commissions. Underwriting Discounts And Commissions Underwriting discounts and commissions Antidilutive Securities, Name [Domain] Antidilutive Securities, Name Accounts, Notes, Loans and Financing Receivable [Line Items] Class of Warrant or Right, Number of Securities Called by Warrants or Rights Common stock to be issued if warrants are exercised (in shares) Finance lease liability recognized in exchange of right of use asset. Finance Lease Liability Recognized in Exchange of Right of Use Asset Finance lease liability recognized during period Fifth Amendment To Loan And Security Agreement Fifth Amendment To Loan And Security Agreement [Member] Fifth amendment to loan and security agreement member. Equity Components [Axis] Equity Components Entity Address, Address Line One Entity Address, Address Line One Other offering costs. Other Offering Costs Other offering costs Schedule of Earnings Per Share, Basic and Diluted [Table Text Block] Computation of Basic and Diluted Net Loss per Common Share Employee-related Liabilities, Current Accrued compensation Employee-related Liabilities, Current, Total Related Party Transaction [Table] Share-Based Compensation Arrangement by Share-Based Payment Award, Equity Instruments Other than Options, Grants in Period Number of shares, Granted Valuation Approach and Technique [Axis] The commission percentage paid under a common stock sales agreement. Common Stock Sales Agreement Commission Percentage Common stock sales agreement, commission percentage The entire disclosure for license agreements. License Agreements Disclosure [Text Block] License Agreements Contingent consideration, measurement input Business Combination, Contingent Consideration, Liability, Measurement Input Schedule of Antidilutive Securities Excluded from Computation of Earnings Per Share [Table Text Block] Schedule of Potentially Dilutive Securities Line of Credit Facility, Maximum Borrowing Capacity Maximum loan amount Share based compensation arrangement by share based payment award options expired in period. Share Based Compensation Arrangement By Share Based Payment Award Options Expired In Period Number of shares, Expired Outside of the United States Non-US [Member] Ex-U.S. Market Sales Probability weighted income approach Valuation, Income Approach [Member] Share-Based Compensation Arrangement by Share-Based Payment Award, Equity Instruments Other than Options, Nonvested, Number Number of shares, Outstanding, ending balance Number of shares, Outstanding, beginning balance Finite-Lived Intangible Asset, Expected Amortization, Year Two 2026 Amendment Flag Amendment Flag Represents the number of financial institutions holding the Company's cash. Number Of Financial Institutions Holding Deposits Number of financial institutions that hold the Company's cash Issuance of common stock upon financing Stock Issued During Period Value Financing Value of stock issued pursuant to a financing arrangement during the period. Operating Lease, Liability, Noncurrent Operating lease liability, long-term Debt Instrument, Name [Domain] Debt Instrument, Name Additional Paid in Capital, Common Stock Additional paid-in capital Additional Paid in Capital, Common Stock, Beginning Balance Additional Paid in Capital, Common Stock, Ending Balance Information pertaining to Pfizer, Inc. Pfizer Inc [Member] Pfizer Inc Number of Asian markets. Number of Asian Markets Number of Asian markets Accounts Receivable, net Receivables [Abstract] Net loss Net loss Lessee, Lease, Description [Table] Inventory, Noncurrent, Total Inventory, Noncurrent Non-current inventory and other assets Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Exercises in Period Issuance of common stock upon exercise of options (in shares) Number of shares, Exercised Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Exercisable, Number Number of shares, Exercisable Variable Rate [Domain] Variable Rate Research and Development Expense [Member] Research and Development Mark Jacobson Mark Jacobson [Member] Mark Jacobson. Customer [Domain] Product Sales Product Sales Member Product Sales Member Equity Component [Domain] Equity Component Statistical Measurement [Domain] Statistical Measurement Rule 10b5-1 Trading Plan One Rule 10b5-1 Trading Plan One [Member] Rule 10b5-1 Trading Plan One Contingent consideration liability, non-current Contingent consideration, non-current Business Combination, Contingent Consideration, Liability, Noncurrent Increase (Decrease) in Other Accounts Payable and Accrued Liabilities Accrued expenses and other current liabilities Disaggregation of Revenue [Table] Net Income (Loss), Including Portion Attributable to Noncontrolling Interest Net loss Net Income (Loss), Including Portion Attributable to Noncontrolling Interest, Total Preferred Stock, Shares Issued Preferred stock, Shares issued Preferred Stock, Shares Issued, Total Cost of revenue (excluding amortization and depreciation) Cost of product sales (excluding amortization and depreciation) Cost of Goods and Service, Excluding Depreciation, Depletion, and Amortization Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Nonvested, Number of Shares Non-vested options outstanding Share-based Compensation Arrangement by Share-based Payment Award, Options, Nonvested, Number of Shares, Beginning Balance Share-based Compensation Arrangement by Share-based Payment Award, Options, Nonvested, Number of Shares, Ending Balance Carrying value as of the balance sheet date of obligations incurred through that date and payable for research and development. Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer). Accrued Research And Development Current Accrued research and development Issuance of common stock upon exercise of options and under employee stock purchase plan (in shares) Stock Issued During Period, Shares, Employee Stock Purchase Plans Accrued royalty payments Accrued Royalties Prepaid Expense and Other Assets, Current Prepaid and other current assets Share-Based Compensation Arrangements by Share-Based Payment Award, Options, Forfeitures in Period, Weighted Average Exercise Price Weighted average exercise price, Forfeited License Agreements License Agreements [Policy Text Block] License Agreements. Collaborative Arrangement and Arrangement Other than Collaborative [Axis] Collaborative Arrangement and Arrangement Other than Collaborative Auvelity Auvelity [Member] Auvelity. Schedule of Finite-Lived Intangible Assets [Table Text Block] Schedule of Carrying Amount of Intangible Asset Common Stock, Shares, Outstanding Common stock, shares outstanding Common Stock, Shares, Outstanding, Beginning Balance Common Stock, Shares, Outstanding, Ending Balance Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Outstanding [Roll Forward] Number of shares Fair Value Measurements Fair Value Measurement, Policy [Policy Text Block] Contingent Consideration by Type [Axis] Probability of Occurrence (periodic for each milestone) Probability Of Occurrence Periodic For Each Milestone [Member] Probability of occurrence periodic for each milestone [Member] Preferred Stock, Par or Stated Value Per Share Preferred stock, par value Antidilutive Securities [Axis] Antidilutive Securities Cash Non-current inventory and other assets Non Current Inventory and Other Assets Non-current inventory and other assets Entity Interactive Data Current Entity Interactive Data Current Product Sales Product [Member] Customer Two Customer Two [Member] Customer Two. Accounting policies. Accounting Policies [Table] Accounting Policies [Table] Represents the information if the outstanding principle and advances under loan agreement exceeds fifty five million. Outstanding Advances Under Loan Agreement Equals Or Exceeds Sixty Five Million [Member] Outstanding principle and advances under the loans agreement exceeds 65 million Document Quarterly Report Document Quarterly Report Royalty revenue Royalty Revenue Royalty Revenue Share-Based Compensation Arrangement by Share-Based Payment Award, Equity Instruments Other than Options, Vested in Period, Weighted Average Grant Date Fair Value Weighted average grant date fair value, Vested Cash, Cash Equivalents, Restricted Cash and Restricted Cash Equivalents, Total Cash, Cash Equivalents, Restricted Cash, and Restricted Cash Equivalents Cash at beginning of period Cash at end of period License Agreements License Agreement Terms [Member] License Agreement Related Party Transactions Disclosure [Text Block] Related Party Transactions Finance Lease, Liability, Undiscounted Excess Amount Less imputed interest Statistical Measurement [Axis] Statistical Measurement Contingent Consideration Commitments and Contingencies, Policy [Policy Text Block] Operating Lease, Cost Total operating lease expense Related and Nonrelated Parties [Domain] Related Party Development milestones. Development Milestones Development milestones Schedule of Disaggregation of Product Sales Disaggregation of Revenue [Table Text Block] Probability of occurrence (cumulative through each milestone) Probability Of Occurrence Cumulative Through Each Milestone [Member] Probability of occurrence cumulative through each milestone [Member]. Finite-Lived Intangible Assets, Gross, Total Finite-Lived Intangible Assets, Gross Gross carrying amount Share-Based Payment Arrangement, Restricted Stock and Restricted Stock Unit, Activity [Table Text Block] Schedule of RSU Activity Share-Based Compensation Arrangement by Share-Based Payment Award, Number of Shares Available for Grant Shares available for future grant Share-Based Compensation Arrangement by Share-Based Payment Award, Equity Instruments Other than Options, Grants in Period, Weighted Average Grant Date Fair Value Weighted average grant date fair value, Granted Share-Based Payment Arrangement, Nonvested Award, Cost Not yet Recognized, Period for Recognition Expected vesting period for non-vested share-based compensation Number of warrants (or share units) exercised during the current period. Warrants Exercised In Period Exercised The increase (decrease) during the reporting period in the value of prepaid expenses and other current assets not separately disclosed in the statement of cash flows, for example, deferred expenses, intangible assets, or income taxes. Increase Decrease In Prepaid Expense And Other Assets Current Prepaid expenses and other current assets 2023 Warrants Term Loan Two Thousand and Twenty Three Warrants [Member] Term Loan Two Thousand and Twenty Three Warrants [Member] Research and Development Expense, Policy [Policy Text Block] Research and Development Costs Statement of Income Location, Balance [Axis] Income Statement Location Accounting policies. Accounting Policies [Line Items] Accounting Policies [Line Items] Assets Total assets Fair Value, Measurement with Unobservable Inputs Reconciliation, Recurring Basis, Liability, Settlements Payments Proceeds from Long-Term Lines of Credit Proceeds from draw down of debt Share-Based Compensation Arrangement by Share-Based Payment Award, Equity Instruments Other than Options, Vested in Period Number of shares, Vested Represents information pertaining to the 2015 Equity Compensation Plan. Two Thousand Fifteen Equity Compensation Plan [Member] 2015 Plan AXS-05. Represents information pertaining to AXS-05. Axs05 [Member] AXS-05 New Accounting Pronouncements, Policy [Policy Text Block] Recent Accounting Pronouncements Entity Address, City or Town Entity Address, City or Town Equity [Abstract] Beneficial ownership percentage Beneficial Ownership Percentage Beneficial ownership percentage. Assets: Assets, Fair Value Disclosure [Abstract] Cash paid for common stock issuance costs Cash paid for common stock issuance costs Payments of Stock Issuance Costs Tranche three sub tranche two. Tranche Three Sub Tranche Two [Member] Tranche Three Sub Tranche Two Effective Income Tax Rate Reconciliation, Percent [Abstract] Income Taxes Schedule of Maturities of Long-Term Debt [Table Text Block] Schedule of Principal Payments December two thousand nineteen sales agreement. December Two Thousand Nineteen Sales Agreement [Member] December 2019 Sales Agreement Share-Based Compensation Arrangement by Share-Based Payment Award, Equity Instruments Other than Options, Forfeited in Period Number of shares, Forfeited Finance Lease, Liability, to be Paid, Year Two 2026 Jazz pharmaceuticals Plc. Jazz Pharmaceuticals Plc [Member] Jazz Pharmaceuticals Plc Royalty Agreements Royalty Agreements Disclosure [Text Block] Royalty agreements disclosure text block Depreciation Depreciation Depreciation, Total Share Price Share Price Share price Non-refundable upfront payment received upfront payment received upfront payment received Fair value price of a single share of a number of saleable stocks of a company Share Price Fair Value Fair value share price Operating Lease, Weighted Average Discount Rate, Percent Operating lease, discount rate Fair Value Disclosures [Abstract] Finance Lease, Liability, to be Paid, Fiscal Year Maturity [Abstract] Finance Lease Stock Issued During Period, Value, New Issues Proceeds from issuance of common stock, gross Chief Executive Officer [Member] Dr. Tabuteau Net equity impact of

the value of new stock issued during the period. Includes shares issued in an initial public offering or a secondary public offering. Stock Issued During Period Value New Issues Net Proceeds from issuance of common stock, net Stock Issued During Period, Value, Stock Options Exercised Issuance of common stock upon exercise of options Lessee, Lease, Description [Line Items] Liabilities, Current [Abstract] Current liabilities: Stock vested during period value restricted common stock award. Stock Vested During Period Value Restricted Common Stock Award Issuance of common stock upon vesting of RSUs Accounts Receivable Accounts Receivable [Member] Tranche Two Sub Tranche Two Sub Tranche two sub tranche two. Tranche Two Sub Tranche Two [Member] Document Type Document Type Title of 12(b) Security Title of 12(b) Security Cash and Cash Equivalents, at Carrying Value Cash and cash equivalents Cash and Cash Equivalents, at Carrying Value, Total Cash and Cash Equivalents, at Carrying Value, Beginning Balance Cash and Cash Equivalents, at Carrying Value, Ending Balance Lease, Cost [Table Text Block] Schedule of Lease Expense Statement of Stockholders' Equity [Abstract] Fair value of contingent consideration Beginning Balance Fair Value, Measurement with Unobservable Inputs Reconciliation, Recurring Basis, Liability Value Ending Balance (Level 3) Document Fiscal Period Focus Document Fiscal Period Focus Research and Development Expense Research and development Research and development expense recognized Research and Development Expense, Total Payment, Tax Withholding, Share-Based Payment Arrangement Payments of tax withholdings on stock award Long-Term Debt, Excluding Current Maturities Loan payable, long-term Loan payable, long-term Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Grants in Period, Gross Number of shares, Granted Revenue Recognition Disaggregation of Revenue [Abstract] Asset Class [Domain] Accounts Receivable, net Loans, Notes, Trade and Other Receivables Disclosure [Text Block] Finance Lease, Right-of-Use Asset, after Accumulated Amortization, Total Finance Lease, Right-of-Use Asset, after Accumulated Amortization Finance lease, right-of-use asset Other development and sales based milestones recognized. Other Development and Sales based Milestones Recognized Other development and sales based milestones recognized Lessee, Leases [Policy Text Block] Leases Forty five day period after closing of fourth amendment to loan and security agreement. Forty Five Day Period After Closing Of Fourth Amendment To Loan And Security Agreement [Member] 45-day Period after Closing of Fourth Amendment to Loan and Security Agreement The final payment fee to be paid under the debt arrangement as a percentage of aggregate amount of all term loan advances minus the aggregate amount of repayments made. Debt Instrument Final Payment Fee Threshold Percentage Of Debt Outstanding Percentage of final payment fee The minimum percentage of revenue should be achieved under the debt instrument. Long Term Debt Additional Drawn Minimum Revenue Percent Minimum product revenue percent Warrants Issued With Debt Financing Warrants issued with debt financing. Issuance of warrants in connection with debt financing Thereafter Long-Term Debt, Maturity, after Year Five Prepayment Occurs On or After February 1, 2025 but Prior to February 1, 2026 Debt Instrument Prepayment Occurring On or After February One Two Thousand Twenty Five But Prior to February One Two Thousand Twenty Six [Member] Debt instrument prepayment occurring on or after february one two thousand twenty five but prior to february one two thousand twenty six. Class of Warrant or Right, Exercise Price of Warrants or Rights Weighted average exercise price, Ending balance Weighted average exercise price, Beginning balance Exercise price of warrants (in dollars per share) Interest expense, net Investment Income, Net Investment Income, Net, Total Class of Warrant or Right [Line Items] Sale of Stock [Axis] Sale of Stock Net Cash Provided by (Used in) Investing Activities [Abstract] Cash flows from investing activities Finite lived intangible assets amortization expense after year four. Finite Lived Intangible Assets Amortization Expense After Year Four Thereafter Less: Reserves for Variable Consideration Reserves for Variable Consideration Reserves for Variable Consideration. Less: Reserves for variable consideration Total product sales, net Revenue from Contract with Customer, Excluding Assessed Tax, Total Revenue Revenue from Contract with Customer, Excluding Assessed Tax Income Taxes Income Tax Disclosure [Text Block] Lessee, Finance Lease, Renewal Term Finance lease, renewal term Schedule of Effective Income Tax Rate Reconciliation [Table Text Block] Schedule Of Loss Before Income Taxes Effective Income Tax Rate Schedule of Loss Before Income Taxes and Effective Tax Rates Finance lease, liability, to be paid, after year four. Finance Lease, Liability, to Be Paid, After Year Four Thereafter Warrants and Rights Note Disclosure [Abstract] WarrantsAndRightsNoteDisclosureAbstract Tranches expire undrawn Undrawn Expire Tranches Undrawn expire tranches. Line of Credit Facility [Line Items] Line Of Credit Facility [Line Items] Selling, general and administrative Selling, General and Administrative Expense Selling, General and Administrative Expense, Total Total Finite-Lived Intangible Assets, Net Finite-Lived Intangible Assets, Net, Ending Balance Finite-Lived Intangible Assets, Net, Beginning Balance Stock vested during period shares restricted common stock award. Stock Vested During Period Shares Restricted Common Stock Award Issuance of common stock upon vesting of RSUs (in shares) Represents the number of votes per share each holder of shares is entitled to. Equity Instrument Voting Rights Per Share Common stock, voting right per share Increase (Decrease) in Accounts Payable Accounts payable Increase (Decrease) in Accounts Payable, Total Entity Address, Address Line Two Entity Address, Address Line Two Liabilities and Equity [Abstract] Liabilities and stockholdersâ€™ equity Document Period End Date Document Period End Date Net Cash Provided by (Used in) Financing Activities Net cash provided by financing activities Add: accreted final payment fee Debt Instrument Accreted Final Payment Fee Debt instrument accreted final payment fee. Effective tax rate Effective Income Tax Rate Reconciliation, Percent Effective tax rate Effective Income Tax Rate Reconciliation, Percent, Total Antidilutive Securities Excluded from Computation of Earnings Per Share, Amount Antidilutive securities The minimum percentage of cash to be maintained under debt instruments. Long Term Debt Additional Drawn Covenant Minimum Cash To Be Maintained As Security Percent Minimum percentage of cash to be maintained as a security APIC, Share-Based Payment Arrangement, Increase for Cost Recognition Stock-based compensation APIC, Share-based Payment Arrangement, Increase for Cost Recognition, Total Income tax benefit (expense) Provision for income taxes Income tax expense Income Tax Expense (Benefit) Income Tax Expense (Benefit), Total Income tax benefit (expense) Cash Equivalents, at Carrying Value [Abstract] Cash Equivalents Tranche One Tranche One [Member] Tranche one. SVB Securities Limited Liability Company. SVB Securities Limited Liability Company [Member] SVB Securities Trading Symbol Business Combination Business Combinations [Abstract] Variable Rate [Axis] Variable Rate Equity, Attributable to Parent Ending balance Beginning balance Total stockholdersâ€™ equity Term Loan Advances Term Loan Advances [Member] Term loan advances. Share-Based Compensation Arrangement by Share-Based Payment Award, Equity Instruments Other than Options, Nonvested, Number of Shares [Roll Forward] Number of shares Operating lease, expiration month and year. Operating Lease Expiration Month And Year Operating lease, expiration month and year Long-Lived Tangible Asset [Axis] Lessee operating lease liability payments due after year four. Lessee Operating Lease Liability Payments Due After Year Four Thereafter Class of Warrant or Right, Outstanding Warrants outstanding beginning balance Warrants outstanding ending balance Stock-Based Compensation Share-Based Payment Arrangement [Policy Text Block] Cash at settlement Cash paid for business combination Payments to Acquire Businesses, Gross Restricted Stock Units (RSUs) [Member] Restricted Stock Units Related Party Transactions [Abstract] Royalty Agreements [Abstract] Royalty agreements. Goodwill, ending balance Goodwill, beginning balance Balance at December 31,2021 Goodwill Goodwill, Total Goodwill Remain Unchanged Initial Cash Payment Per Collaboration Agreement. Initial Cash Payment Per Collaboration Agreement Upfront cash payment Represents the maximum reduction percentage of the royalty due as a result of required payments to third parties. License Agreement Royalty Due Maximum Reduction Percentage As Result Of Required Payments To Third Parties License agreement royalty, maximum reduction percent as a result of required third party payments Contract With Customer Liability [Line Items] Contract With Customer Liability [Line Items] Contract with customer liability. Share-Based Payment Arrangement, Expensed and Capitalized, Amount [Table Text Block] Schedule of Stock-Based Compensation Expense Recognized Measurement Input Discount Rate Measurement Input, Discount Rate [Member] Schedule of Accounts Receivable, Net Schedule of Accounts, Notes, Loans and Financing Receivable [Table Text Block] Measurement Input Type [Axis] Rule 10b5-1 Trading Plan Two Rule 10b5-1 Trading Plan Two [Member] Rule 10b5-1 Trading Plan Two Unobservable input weighted average rate Unobservable Input Weighted Average Rate Unobservable input weighted average rate. Geographical [Axis] Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Vested and Expected to Vest, Exercisable, Aggregate Intrinsic Value Aggregate intrinsic value, Exercisable Finance Lease, Liability, to be Paid, Year Three 2027 Share-Based Payment Arrangement, Nonvested Award, Option, Cost Not yet Recognized, Amount Unrecognized compensation cost related to non-vested stock options expected to be recognized Antecip. Affiliated Entity [Member] Antecip Use of Estimates, Policy [Policy Text Block] Use of Estimates Concentration risk, percentage Concentration Risk, Percentage Cash and Cash Equivalents, Policy [Policy Text Block] Cash and Cash Equivalents Non-current inventory and other assets Weighted average price at which warrants were exercised. Warrants Exercised In Period Weighted Average Exercise Price Exercised Period during which warrants are active, in 'PnYmDnThHnMnS' format, for example, 'P1Y5M13D' represents the reported fact of one year, five months, and thirteen days. Class Of Warrant Or Right Term Term of warrants (in years) Scenario [Axis] Scenario Tranche One Sub Tranche Four Tranche One Sub Tranche Four [Member] Tranche one sub tranche four. Security Exchange Name Security Exchange Name Counterparty Name [Domain] Counterparty Name Fair Value by Liability Class [Domain] Business Acquisition, Acquiree [Domain] Tranche One Sub Tranche Two Tranche One Sub Tranche Two [Member] Tranche one sub tranche two. Long-Lived Tangible Asset [Domain] Share-based compensation arrangement by share-based payment award options forfeitures or canceled in period, weighted average exercise price. Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Forfeitures Or Canceled in Period, Weighted Average Exercise Price Weighted average exercise price, Forfeited/Canceled Fair Value of Financial Instruments Fair Value Disclosures [Text Block] Lessee, Operating Lease, Liability, to be Paid, Year Three 2027 Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Grants in Period, Weighted Average Grant Date Fair Value Weighted average grant date fair value Research and Development Arrangement, Contract to Perform for Others, Type [Domain] Research and Development Arrangement, Contract to Perform for Others, Type Adjustments to Additional paid-in capital Shares tendered for withholding taxes. Adjustments To Additional Paid In Capital Shares Tendered For Withholding Taxes Shares tendered for withholding taxes Maximum Maximum Liabilities and Equity Total liabilities and stockholdersâ€™ equity Operating Lease, Right-of-Use Asset Right-of-use asset - operating lease Operating lease, right-of-use asset Supplemental Cash Flow Information [Abstract] Supplemental disclosures of cash flow information: Prime Rate [Member] Prime Rate Net loss per common share, diluted Earnings Per Share, Diluted Earnings Per Share, Diluted, Total Percentage of facility fee to be paid Percentage Of Facility Fee To Be Paid Percentage of facility fee to be paid. Liabilities Total liabilities Research and Development [Abstract] Schedule of interest expense and amortization of final payment fee, amortization of debt discount related to issuance costs and warrants. Schedule of Interest Expense and Amortization of Final Payment Fee, Amortization of Debt Discount Related to Issuance Costs and Warrants [Table Text Block] Schedule of Interest Expense and Amortization of Final Payment Fee, Amortization of Debt Discount Related to Issuance Costs and Warrants Fair Value Hierarchy and NAV [Domain] Accrued selling, general and administrative Accrued Selling, General and Administrative Current Accrued selling, general and administrative current. Assets, Current Total current assets Net Cash Provided by (Used in) Investing Activities Net cash used in investing activities Forecast [Member] Scenario Forecast Stock Issued During Period, Shares, New Issues Shares issued Revenue Discount Rate Increases or Decreases by Approximately 1% Revenue Discount Rate Increases or Decreases by One Percentage [Member] Revenue discount rate increases or decreases by one percentage. December two thousand nineteen and march two thousand twenty two sales agreement. December Two Thousand Nineteen and March Two Thousand Twenty Two Sales Agreement [Member] December 2019 and March 2022 Sales Agreement Share-Based Compensation Arrangement by Share-Based Payment Award, Award Vesting Period Vesting period Lessee, Operating Lease, Existence of Option to Extend [true false] Lessee, operating lease, existence of option to extend [true false] Entity Filer Category Entity Filer Category Equipment, net Property, Plant and Equipment [Abstract] Organization, Consolidation and Presentation of Financial Statements Disclosure [Text Block] Nature of Business and Basis of Presentation Unrecognized tax benefits Unrecognized Tax Benefits that Would Impact Effective Tax Rate Fair Value, Assets and Liabilities Measured on Recurring Basis, Unobservable Input Reconciliation [Abstract] Current Fiscal Year End Date Current Fiscal Year End Date Fair Value, Assets and Liabilities Measured on Recurring and Nonrecurring Basis [Line Items] Equipment, net Property, Plant and Equipment, Policy [Policy Text Block] Lessee, Operating Lease, Liability, Undiscounted Excess Amount Less imputed interest Term Loan 2020 Represents about term loan two thousand twenty. Term Loan2020 [Member] Share-Based Payment Arrangement, Noncash Expense Stock-based compensation expense Share-based Payment Arrangement, Noncash Expense, Total Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Outstanding, Intrinsic Value Aggregate intrinsic value, Outstanding Related and Nonrelated Parties [Axis] Related Party Interest Expense, Debt, Excluding Amortization Interest expense Accrued contingent consideration, current Contingent consideration, current Business Combination, Contingent Consideration, Liability, Current Entity Registrant Name Entity Registrant Name Contingent consideration liability Contingent consideration Contingent Consideration Liability, Total Fair value of contingent consideration Finance Lease, Weighted Average Remaining Lease Term Weighted average remaining lease term Cost of product sales Cost of product sales Cost of Revenue Cost of Revenue, Total Schedule of Share-Based Compensation Arrangements by Share-Based Payment Award [Table] Schedule Of Share Based Compensation Arrangements By Share Based Payment Award [Table] Earnings Per Share [Text Block] Net Loss per Common Share Entity Emerging Growth Company Entity Emerging Growth Company Represents the number of license agreements the Company has entered into. Number Of License Agreements Number of exclusive license agreements Money Market Funds Money Market Funds [Member] Weighted average common shares outstanding, basic Weighted Average Number of Shares Outstanding, Basic Weighted Average Number of Shares Outstanding, Basic, Total Loss Contingencies [Line Items] Loss Contingencies [Line Items] Finance Lease, Liability, Noncurrent Finance lease liability, long-term Lessee, Operating Lease, Liability, to be Paid, Fiscal Year Maturity [Abstract] Operating Lease Common Stock, Shares Authorized Common stock, shares authorized Interest Payable, Current Accrued interest Property, Plant and Equipment, Useful Life Estimated useful life Schedule of Long-Term Debt Instruments [Table Text Block] Schedule of Outstanding Debt and Unamortized Debt Discount Balances Royalty Revenue Royalty [Member] Proceeds from issuance of common stock upon financing Proceeds from Issuance of Common Stock Proceeds from Issuance of Common Stock Concentration Risk Type [Axis] Finance Lease, Interest Expense Interest on lease liabilities Level 1 Fair Value, Inputs, Level 1 [Member] Discount Rate Increases or Decreases by Approximately 1% Discount Rate Increases or Decreases by One Percentage [Member] Discount rate increases or decreases by one percentage. License agreement royalty as a percent of net sale Represents the percentage of net sales of products containing the licensed products, due to licensor as a royalty. License Agreement Royalty Due Percentage Of Net Sales License agreement royalty as a percent of net sales Debt Disclosure [Abstract] Long-Term Debt [Text Block] Loan and Security Agreement Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Vested and Expected to Vest, Outstanding, Weighted Average Exercise Price Weighted average exercise price, Vested and expected to vest Share-Based Compensation Arrangements by Share-Based Payment Award, Options, Grants in Period, Weighted Average Exercise Price Weighted average exercise price, Granted Amortization Expense Intangible asset amortization Amortization of intangible asset Amortization expense Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Outstanding, Weighted Average Remaining Contractual Term Weighted average contractual term, Outstanding Earnings Per Share, Policy [Policy Text Block] Basic and Diluted Net Loss per Common Share Debt, Policy [Policy Text Block] Debt Issuance Costs General and Administrative Expense [Member] Selling General and Administrative Revenue Recognition Revenue [Policy Text Block] Number of shares of stock issued during the period pursuant to a financing arrangement. Stock Issued During Period Shares Financing Issuance of common stock upon financing (in shares) Issuance of common stock Payment Of Contingent Consideration Payment of contingent consideration Tranche One Sub Tranche One Tranche One Sub Tranche One [Member] Tranche One Sub Tranche One [Member] Warrant liability. Warrant Liability [Member] Warrant liability Eligible to receive sales-based and other milestones Eligible to receive sales-based and other milestones Eligible to receive sales-based and other milestones Accounting Policies [Abstract] Represents information pertaining to AXS-04. Axs04 [Member] AXS-04 Share-Based Payment Arrangement, Option, Activity [Table Text Block] Summary of Stock Option Activity Finance Lease, Liability, to be Paid, Remainder of Fiscal Year 2024 Represents the information pertaining to AXS-05 and AXS-07. Axs05 And Axs07 [Member] AXS-05 and AXS-07 Tranche One Sub Tranche Five Tranche One Sub Tranche Five [Member] Tranche one sub tranche five. Finance lease costs. Finance Lease Costs [Abstract] Finance lease expense Income Tax Disclosure [Abstract] Equity, Attributable to Parent [Abstract] Stockholdersâ€™ equity: Cash Flow, Noncash Investing and Financing Activities Disclosure [Abstract] Supplemental non-cash investing activities: Statement [Table] Statement [Table] Segment Reporting, Policy [Policy Text Block] Segment Information Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Vested and Expected to Vest, Outstanding, Weighted Average Remaining Contractual Term Weighted average contractual term, Vested and expected to vest Inventory Write-down Inventory write down Threshold period of specified consecutive trading days within which the volume weighted average price of company's common stock. Class Of Warrants Or Rights Weighted Average Price Trading Days Trading days Accrued Liabilities and Other Liabilities [Abstract] Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Outstanding, Weighted Average Exercise Price [Abstract] Weighted average exercise price Sunosi. Sunosi [Member] Sunosi Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Vested and Expected to Vest [Abstract] Aggregate intrinsic value Preferred Stock, Shares Authorized Preferred stock, shares authorized Securities Act File Number Entity File Number Cash, Cash Equivalents, Restricted Cash, and Restricted Cash Equivalents, Period Increase (Decrease), Including Exchange Rate Effect Net (decrease) increase in cash Revenue from Contract with Customer [Abstract] Earnings Per Share [Abstract] Leased office space. Leased Office Space [Member] 22 Cortlandt

Street Lease Inventory Disclosure [Abstract] Operating Lease, Liability, Statement of Financial Position [Extensible Enumeration] Statement of Financial Position [Abstract] Loss from operations Operating Income (Loss) Loss from operations Long-Term Debt, Maturity, Year One 2024 Entity Shell Company Entity Shell Company Line of Credit Facility [Table] Line Of Credit Facility [Table] Schedule of fair value measurements of contingent consideration recurring include significant unobservable inputs Fair Value Measurement Inputs and Valuation Techniques [Table Text Block] Entity Tax Identification Number Entity Tax Identification Number Assets [Abstract] Assets Entity Current Reporting Status Entity Current Reporting Status Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Exercisable, Weighted Average Remaining Contractual Term Weighted average contractual term, Exercisable Research and Development Arrangement, Contract to Perform for Others [Line Items] Research And Development Arrangement Contract To Perform For Others [Line Items] Finance Lease, Liability, to be Paid, Year Four 2028 Long-Term Debt, Type [Axis] Long-Term Debt, Type Inventory Inventory Disclosure [Text Block] Geographical [Domain] Document Fiscal Year Focus Document Fiscal Year Focus Preferred Stock, Value, Issued Preferred Stock, Value, Issued, Ending Balance Preferred Stock, Value, Issued, Total Preferred Stock, Value, Issued, Beginning Balance Preferred stock, \$0.0001 par value per share (10,000,000 shares authorized, none issued and outstanding) The minimum percentage of cash to be maintained as security following the market capitalization conditions under the debt instruments. Long Term Debt Additional Drawn Covenant Minimum Cash To Be Maintained As Security With Market Capitalization Covenant Percent Minimum percentage of cash to be maintained as a security following market capitalization condition Lessee, Finance Lease, Term of Contract Finance lease, lease terms Finite-Lived Intangible Assets, Accumulated Amortization Accumulated amortization Cost of Revenue Cost of Goods and Service [Policy Text Block] Business Acquisition [Axis] City Area Code City Area Code Reclassifications Reclassification, Comparability Adjustment [Policy Text Block] Liabilities, Current Total current liabilities Cost of Product Sales Cost of Revenue [Abstract] Line of Credit Facility, Lender [Domain] Line of Credit Facility, Lender Inventories, net Inventory, Net Inventories, net Finished goods Inventory, Finished Goods, Gross Number of approved products. Number of approved products Debt Instrument, Unamortized Discount, Noncurrent Less: unamortized debt discount, long-term Organization, Consolidation and Presentation of Financial Statements [Abstract] Local Phone Number Local Phone Number Preferred Stock, Shares Outstanding Preferred stock, shares outstanding Preferred Stock, Shares Outstanding, Beginning Balance Preferred Stock, Shares Outstanding, Ending Balance Antidilutive Securities Excluded from Computation of Earnings Per Share [Line Items] Antidilutive Securities Excluded From Computation Of Earnings Per Share [Line Items] Sublease agreement term. Sublease Agreement Term Sublease agreement term Milestone dates Milestone Dates [Member] Milestone dates [Member]. Fair Value Measurement Inputs and Valuation Techniques [Abstract] Represents the information if the outstanding principle and advances under loan agreement exceeds fifty five million. Outstanding Advances Under Loan Agreement Equals Or Exceeds Fifty Five Million [Member] Outstanding principle and advances under the loans agreement exceeds 55 million Tranche Two Sub Tranches To One Tranche Tranche Two Sub Tranches To One Tranche [Member] Tranche two sub tranches to one tranche. Income Tax, Policy [Policy Text Block] Income Taxes Commitments and Contingencies Disclosure [Abstract] Fair Value, by Balance Sheet Grouping [Table] Increase in minimum cash requirement amount Long Term Debt Additional Drawn Covenant Minimum Cash Long Term debt additional drawn covenant minimum cash. Operating Lease, Liability, Current Operating lease liability, current portion Right-of-Use Asset Obtained in Exchange for Finance Lease Liability Finance lease right-of-use asset obtained in exchange for finance lease liability Finance lease right-of-use asset recognized during period Debt Instrument, Interest Rate, Stated Percentage Base interest rate Retained Earnings [Member] Accumulated Deficit Payments to Acquire Property, Plant, and Equipment Purchases of equipment Payments to Acquire Property, Plant, and Equipment, Total Document Transition Report Document Transition Report Other Noncash Investing and Financing Items [Abstract] Supplemental disclosures of non-cash financing activity: Other two products Other Two Products [Member] Other Two Products Share-Based Compensation Arrangement by Share-Based Payment Award, Purchase Price of Common Stock, Percent Purchase price of common stock percent Lessee, Operating Lease, Liability, to be Paid, Year Two 2026 Valuation Approach and Technique [Domain] Antidilutive Security, Excluded EPS Calculation [Table] Schedule Of Antidilutive Securities Excluded From Computation Of Earnings Per Share [Table] Number of reporting units Number of Reporting Units Share-Based Compensation Arrangements by Share-Based Payment Award, Options, Exercises in Period, Weighted Average Exercise Price Weighted average exercise price, Exercised Concentration of Risk Concentration Risk, Credit Risk, Policy [Policy Text Block] Finite-Lived Intangible Asset, Expected Amortization, Remainder of Fiscal Year 2024 Minimum Minimum Common Stock [Member] Common Stock Share-Based Payment Arrangement, Expensed and Capitalized, Amount [Line Items] Share-based Compensation Arrangement by Share-based Payment Award, Compensation Cost [Line Items] Long-Term Debt, Maturity, Year Two 2025 Accounts Payable and Accrued Liabilities Disclosure [Text Block] Accrued Expenses and Other Current Liabilities Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Vested and Expected to Vest, Outstanding, Aggregate Intrinsic Value Aggregate intrinsic value, Vested and expected to vest Fair value of contingent consideration in a business combination. Fair Value Of Contingent Consideration In A Business Combination Fair value of contingent consideration in a business combination Investment, Name [Axis] Investment, Name Share-Based Compensation Arrangement by Share-Based Payment Award, Equity Instruments Other than Options, Nonvested, Weighted Average Grant Date Fair Value Weighted average grant date fair value, Outstanding, ending balance Weighted average grant date fair value, Outstanding, beginning balance Change in operating lease liability. Change In Operating Lease Liability Change in operating lease liability Additional Paid-in Capital [Member] Additional Paid-in Capital Foreign Currency Transactions and Translations Policy [Policy Text Block] Foreign Currency Translation Statement of Income Location, Balance [Domain] Income Statement Location Lessee, Operating Lease, Liability, to be Paid, Year One 2025 Fair Value Measurement With Unobservable Inputs Reconciliations Recurring Basis Liability Initial Estimate Fair value measurement with unobservable inputs reconciliations recurring basis liability initial estimate. Initial estimate (Level 3) Disclosure of accounting policy for significant risks and uncertainties. Significant Risks And Uncertainties Policy Policy [Text Block] Significant Risks And Uncertainties Total Pursuant To Non-Qualified Stock Options Total Pursuant To Non- Qualified Stock Options [Member] Total Pursuant To Non- Qualified Stock Options Schedule of Inventory Schedule of Inventory, Current [Table Text Block] Customer One Customer One [Member] Customer One. Entity Common Stock, Shares Outstanding Entity Common Stock, Shares Outstanding Disaggregation of Revenue [Line Items] Operating Sub Lease commencement Month and Year. Operating Sub Lease commencement Month and Year Operating sub Lease commencement month and year Accounts and Financing Receivables [Table] Issuance of warrants upon debt financing Warrants issued during period debt financing. Warrants Issued During Period Debt Financing Finite-Lived Intangible Asset, Expected Amortization, Year One 2025 Scenario [Domain] Scenario Number of warrants (or share units) issued during the current period. Warrants Issued In Period Number of warrants issued Issued Finance Lease, Liability, Current Finance lease liability, current Accrued sales discounts, rebates and allowances Accrued Sales Commission, Current Common stock, \$0.0001 par value per share (150,000,000 shares authorized, 47,801,578 and 47,351,363 shares issued and outstanding at June 30, 2024 and December 31, 2023, respectively) Common Stock, Value, Issued Value of common stock Common Stock, Value, Issued, Total Common Stock, Value, Issued, Beginning Balance Common Stock, Value, Issued, Ending Balance Tranche Three Sub Tranches to One Tranche Tranche Three Sub Tranches To One Tranche [Member] Tranche three sub tranches to one tranche. Finance Lease, Right-of-Use Asset, Amortization Right-of-use asset amortization for finance lease Amortization of right-of-use assets Schedule of Finite-Lived Intangible Assets, Future Amortization Expense [Table Text Block] Schedule of Finite Lived Intangible Assets Future Amortization Expenses Pharmanovia Pharmanovia [Member] Pharmanovia. Cash and cash equivalents Cash and Cash Equivalents, Fair Value Disclosure Represents the consecutive number of trading days to determine the weighted average price per share of ordinary shares. Consecutive Trading Days Prior trading days Long-Term Debt, Maturity, Year Three 2026 Contingent Consideration Type [Domain] Operating Lease, Liability Present value of operating lease liabilities Operating Lease, Liability, Total Operating lease liability Period of time, after the first commercial sale of the applicable product, the license agreement is valid, in PnYnMndTnHnMnS' format, for example, 'P1Y5M13D' represents the reported fact of one year, five months, and thirteen days. License Agreement Term License agreement term, from first commercial sale Measurement Frequency [Axis] Schedule of Accrued Liabilities [Table Text Block] Schedule of Accrued Expenses and Other Current Liabilities Schedule of Interest and Amortization Expense for Final Payment Fee and Debt Discount Schedule of Interest and Amortization Expense for Final Payment Fee and Debt Discount [Table Text Block] Schedule of interest and amortization expense for final payment fee and debt discount. Customer Three Customer Three [Member] Customer Three. Tranche One Sub Tranche Three Tranche One Sub Tranche Three [Member] Tranche one sub tranche three. Weighted average common shares outstanding, diluted Weighted Average Number of Shares Outstanding, Diluted Weighted Average Number of Shares Outstanding, Diluted Total Significant Accounting Policies [Text Block] Summary of Significant Accounting Policies Number of not yet approved product candidates. Number of Not Yet Approved Product Candidates Number of not yet approved product candidates Accounts Receivables, net Accounts receivables, net Accounts Receivable, after Allowance for Credit Loss, Current Accounts receivable, net Research and Development Arrangement, Contract to Perform for Others, Type [Axis] Research and Development Arrangement, Contract to Perform for Others, Type Lessee, Operating Lease, Renewal Term Operating lease, renewal term Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Vested and Expected to Vest, Outstanding, Number Number of shares, Vested and expected to vest Lessee, Operating Lease, Liability, to be Paid Total lease payments Inventories, net Increase (Decrease) in Inventories Increase (Decrease) in Inventories, Total Proceeds from issuance of common stock upon exercise of options and under employee stock purchase plan Proceeds From Issuance Of Common Stock Upon Exercise Of Options And Under Employee Stock Purchase Plan Proceeds from issuance of common stock upon exercise of options and under employee stock purchase plan. Hercules Capital Inc. Hercules Capital Inc [Member] Hercules Capital Inc Concentration Risk Benchmark [Domain] Finance Lease, Liability, Total Finance Lease, Liability Finance lease liability Entity Small Business Entity Small Business Debt Instrument, Basis Spread on Variable Rate Interest rate basis Segment Reporting, Disclosure of Entity's Reportable Segments [Abstract] Segment and Geographic Information March Two Thousand Twenty Two Sales Agreement [Member] March Two Thousand Twenty Two Sales Agreement [Member] March 2022 Sales Agreement Represents the prepayment penalty percentage on principal amount of debt. Debt Instrument Prepayment Penalty Percentage Percentage of prepayment penalty The minimum amount of cash should be maintained as first priority security interest under the terms of debt instrument. Long Term Debt Additional Drawn Covenant Minimum Cash As Security Interest Minimum cash to be maintain as a first priority security interest Share-Based Compensation Arrangements by Share-Based Payment Award, Options, Expirations in Period, Weighted Average Exercise Price Weighted average exercise price, Expired Non-cash lease expense. Non Cash Lease Expense Non-cash lease expense Net Cash Provided by (Used in) Financing Activities [Abstract] Cash flows from financing activities Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Outstanding, Weighted Average Exercise Price Weighted average exercise price, Outstanding, ending balance Weighted average exercise price, Outstanding, beginning balance Amortization of debt discount related issuance costs and warrants Amortization of Debt Discount (Premium) Amortization of debt discount Asset Class [Axis] Tranche Two Sub Tranche Three Tranche two sub tranche three, Tranche Two Sub Tranche Three [Member] Net Book Value at September 30, 2023 Net Book Value at March 31, 2023 Balance at December 31, 2022 Intangible asset, net Intangible Assets, Net (Excluding Goodwill) Net carrying amount Expected cash dividend Share-Based Compensation Arrangement by Share-Based Payment Award, Fair Value Assumptions, Expected Dividend Payments Right-of-Use Asset Obtained in Exchange for Operating Lease Liability Operating lease right-of-use asset obtained in exchange for operating lease liability Measurement Frequency [Domain] Work in process Inventory, Work in Process, Gross Level 3 Fair Value, Inputs, Level 3 [Member] Operating Lease, Weighted Average Remaining Lease Term Operating lease, remaining lease term Accounts Payable, Current Accounts payable Accounts Payable, Current, Total Share-Based Compensation Arrangement by Share-Based Payment Award, Equity Instruments Other than Options, Nonvested, Weighted Average Grant Date Fair Value [Abstract] Weighted average grant date fair value June two thousand twenty three public offering. June Two Thousand Twenty Three Public Offering [Member] June 2023 Public Offering Total operating expenses Costs and Expenses Total Liabilities, Fair Value Disclosure Cardinal Health, Inc Cencora, Inc And McKesson Corporation Cardinal Health, Inc Cencora, Inc And McKesson Corporation [Member] Cardinal Health, Inc Cencora, Inc And McKesson Corporation. Risks and Uncertainties [Abstract] Concentration of Credit Risk Accounts receivable, Allowance for credit loss Accounts Receivable, Allowance for Credit Loss Accounts Receivable, Allowance for Credit Loss, Ending Balance Accounts Receivable, Allowance for Credit Loss, Beginning Balance XML 8 R1.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Document and Entity Information - shares 6 Months Ended Jun. 30, 2024 Jul. 29, 2024 Cover [Abstract] Á Á Document Type 10-Q Á Document Quarterly Report true Á Document Transition Report false Á Document Period End Date Jun. 30, 2024 Á Entity File Number 001-37635 Á Entity Registrant Name AXSOME THERAPEUTICS, INC. Á Entity Incorporation, State or Country Code DE Á Entity Tax Identification Number 45-4241907 Á Entity Address, Address Line One One World Trade Center Á Entity Address, Address Line Two 22nd Floor Á Entity Address, City or Town New York Á Entity Address, State or Province NY Á Entity Address, Postal Zip Code 10007 Á City Area Code 212 Á Local Phone Number 332-3241 Á Title of 12(b) Security Common Stock, Par Value \$0.0001 Per Share Á Trading Symbol AXSM Á Security Exchange Name NASDAQ Á Entity Current Reporting Status Yes Á Entity Interactive Data Current Yes Á Entity Filer Category Large Accelerated Filer Á Entity Small Business false Á Entity Emerging Growth Company false Á Entity Shell Company false Á Entity Common Stock, Shares Outstanding Á 48,000,205 Current Fiscal Year End Date -12-31 Á Document Fiscal Year Focus 2024 Á Document Fiscal Period Focus Q2 Á Entity Central Index Key 0001579428 Á Amendment Flag false Á X - DefinitionBoolean flag that is true when the XBRL content amends previously-filed or accepted submission. + ReferencesNo definition available. + Details Name: dei AmendmentFlag Namespace Prefix: dei Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - DefinitionArea code of city + ReferencesNo definition available. + Details Name: dei CityAreaCode Namespace Prefix: dei Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: duration X - DefinitionCover page. + ReferencesNo definition available. + Details Name: dei CoverAbstract Namespace Prefix: dei Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionEnd date of current fiscal year in the format -MM-DD. + ReferencesNo definition available. + Details Name: dei CurrentFiscalYearEndDate Namespace Prefix: dei Data Type: xbrli:MonthDayItemType Balance Type: na Period Type: duration X - DefinitionFiscal period values are FY, Q1, Q2, and Q3. 1st, 2nd and 3rd quarter 10-Q or 10-QT statements have value Q1, Q2, and Q3 respectively, with 10-K, 10-KT or other fiscal year statements having FY. + ReferencesNo definition available. + Details Name: dei DocumentFiscalPeriodFocus Namespace Prefix: dei Data Type: dei:fiscalPeriodItemType Balance Type: na Period Type: duration X - DefinitionThis is focus fiscal year of the document report in YYYY format. For a 2006 annual report, which may also provide financial information from prior periods, fiscal 2006 should be given as the fiscal year focus. Example: 2006. + ReferencesNo definition available. + Details Name: dei DocumentFiscalYearFocus Namespace Prefix: dei Data Type: xbrli:yearItemType Balance Type: na Period Type: duration X - DefinitionFor the EDGAR submission types of Form 8-K: the date of the report, the date of the earliest event reported; for the EDGAR submission types of Form N-1A: the filing date; for all other submission types: the end of the reporting or transition period. The format of the date is YYYY-MM-DD. + ReferencesNo definition available. + Details Name: dei DocumentPeriodEndDate Namespace Prefix: dei Data Type: xbrli:dateItemType Balance Type: na Period Type: duration X - DefinitionBoolean flag that is true only for a form used as an quarterly report. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Form 10-Q -Number 240 -Section 308 -Subsection a + Details Name: dei DocumentQuarterlyReport Namespace Prefix: dei Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - DefinitionBoolean flag that is true only for a form used as a transition report. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Forms 10-K, 10-Q, 20-F -Number 240 -Section 13 -Subsection a-1 + Details Name: dei DocumentTransitionReport Namespace Prefix: dei Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - DefinitionThe type of document being provided (such as 10-K, 10-Q, 485BPOS, etc). The document type is limited to the same value as the supporting SEC submission type, or the word 'Other'. + ReferencesNo definition available. + Details Name: dei DocumentType Namespace Prefix: dei Data Type: dei:submissionItemType Balance Type: na Period Type: duration X - DefinitionAddress Line 1 such as Attn, Building Name, Street Name + ReferencesNo definition available. + Details Name: dei EntityAddressAddressLine1 Namespace Prefix: dei Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: duration X - DefinitionAddress Line 2 such as Street or Suite number + ReferencesNo definition available. + Details Name: dei EntityAddressAddressLine2 Namespace Prefix: dei Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: duration X - DefinitionName of the City or Town + ReferencesNo definition available. + Details Name: dei EntityAddressCityOrTown Namespace Prefix: dei Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: duration X - DefinitionCode for the postal or zip code + ReferencesNo definition available. + Details Name: dei EntityAddressPostalZipCode Namespace Prefix: dei Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: duration X - DefinitionName of the state or province. + ReferencesNo definition available. + Details Name: dei EntityAddressStateOrProvince Namespace Prefix: dei Data Type: dei:stateOrProvinceItemType Balance Type: na Period Type: duration X - DefinitionA unique 10-digit SEC-issued value to identify entities that have filed disclosures with the SEC. It is commonly abbreviated as CIK. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2 + Details Name:

dei_EntityCentralIndexKey Namespace Prefix: dei_ Data Type: dei:centralIndexKeyItem Type Balance Type: na Period Type: duration X - DefinitionIndicate number of shares or other units outstanding of each of registrant's classes of capital or common stock or other ownership interests, if and as stated on cover of related periodic report. Where multiple classes or units exist define each class/interest by adding class of stock items such as Common Class A [Member], Common Class B [Member] or Partnership Interest [Member] onto the Instrument [Domain] of the Entity Listings, Instrument. + ReferencesNo definition available. + Details Name: dei_EntityCommonStockSharesOutstanding Namespace Prefix: dei_ Data Type: xbrli:shareItem Type Balance Type: na Period Type: instant X - DefinitionIndicate 'Yes' or 'No' whether registrants (1) have filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that registrants were required to file such reports), and (2) have been subject to such filing requirements for the past 90 days. This information should be based on the registrant's current or most recent filing containing the related disclosure. + ReferencesNo definition available. + Details Name: dei_EntityCurrentReportingStatus Namespace Prefix: dei_ Data Type: dei:yesNoItem Type Balance Type: na Period Type: duration X - DefinitionIndicate if registrant meets the emerging growth company criteria. + ReferencesReference 1:

(iii)(A) - Publisher FASB -URI <https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference> 13: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph \(SX 210.13-01\(a\)\(4\)\(iv\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv))) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference> 14: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph \(SX 210.13-01\(a\)\(5\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5))) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference> 15: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph \(SX 210.13-02\(a\)\(4\)\(i\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i))) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference> 16: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph \(SX 210.13-02\(a\)\(4\)\(iii\)\(A\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A))) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference> 17: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph \(SX 210.13-02\(a\)\(4\)\(iii\)\(B\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B))) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference> 18: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph \(SX 210.13-02\(a\)\(4\)\(iv\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv))) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference> 19: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph \(SX 210.13-02\(a\)\(5\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5))) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference> 20: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph \(a\) -Publisher FASB -URI](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (a) -Publisher FASB -URI) <https://asc.fasb.org/1943274/2147481404/852-10-50-7> + Details Name: us-gaap AssetsCurrentNamespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap AssetsCurrentAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of liability recognized arising from contingent consideration in a business combination, expected to be settled within one year or the normal operating cycle, if longer. + ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 805 -SubTopic 30 -Name Accounting Standards Codification -Section 35 -Paragraph 1 -Subparagraph \(b\) -Publisher FASB -URI](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 805 -SubTopic 30 -Name Accounting Standards Codification -Section 35 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI) <https://asc.fasb.org/1943274/2147479613/805-30-35-1>Reference 2: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification -Topic 805 -SubTopic 30 -Section 25 -Paragraph 6 -Publisher FASB -URI> <https://asc.fasb.org/1943274/2147479668/805-30-25-6> + Details Name: us-gaap BusinessCombinationContingentConsiderationLiabilityCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of liability recognized arising from contingent consideration in a business combination, expected to be settled beyond one year or the normal operating cycle, if longer. + ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 805 -SubTopic 30 -Name Accounting Standards Codification -Section 35 -Paragraph 1 -Subparagraph \(b\) -Publisher FASB -URI](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 805 -SubTopic 30 -Name Accounting Standards Codification -Section 35 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI) <https://asc.fasb.org/1943274/2147479613/805-30-35-1>Reference 2: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification -Topic 805 -SubTopic 30 -Section 25 -Paragraph 6 -Publisher FASB -URI> <https://asc.fasb.org/1943274/2147479668/805-30-25-6> + Details Name: us-gaap BusinessCombinationContingentConsiderationLiabilityNoncurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of currency on hand as well as demand deposits with banks or financial institutions. Includes other kinds of accounts that have the general characteristics of demand deposits. Also includes short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. Excludes cash and cash equivalents within disposal group and discontinued operation. + ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(1\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(1))) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference> 2: [http://www.xbrl.org/2003/role/exampleRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph \(a\) -Publisher FASB -URI](http://www.xbrl.org/2003/role/exampleRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI) <https://asc.fasb.org/1943274/2147483467/210-10-45-1>Reference 3: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 45 -Paragraph 4 -Publisher FASB -URI> <https://asc.fasb.org/1943274/2147482740/230-10-45-4> + Details Name: us-gaap CashAndCashEquivalentsAtCarryingValue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAggregate par or stated value of issued nonredeemable common stock (or common stock redeemable solely at the option of the issuer). This item includes treasury stock repurchased by the entity. Note: elements for number of nonredeemable common shares, par value and other disclosure concepts are in another section within stockholders' equity. + ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(29\)\)](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29))) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference> 2: <http://www.xbrl.org/2003/role/exampleRef-Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI> <https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.7-03\(a\)\(22\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(22))) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147478777/944-210-S99-1> + Details Name: us-gaap CommonStockValue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionPresent value of lessee's discounted obligation for lease payments from finance lease, classified as noncurrent. + ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph \(b\) -Publisher FASB -URI](http://www.xbrl.org/2003/role/disclosureRef-Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI) <https://asc.fasb.org/1943274/2147479041/842-20-45-1> + Details Name: us-gaap FinanceLeaseLiabilityNoncurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount, after accumulated impairment loss, of asset representing future economic benefit arising from other asset acquired in business combination or from joint venture formation or both, that is not individually identified and separately recognized. + ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 49 -Publisher FASB -URI> <https://asc.fasb.org/1943274/2147482785/280-10-55-49>Reference 2: <http://www.xbrl.org/2003/role/exampleRef-Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 24 -Publisher FASB -URI> <https://asc.fasb.org/1943274/2147482548/350-20-55-24>Reference 3: [http://www.xbrl.org/2003/role/exampleRef-Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 100 -Subparagraph \(d\) -Publisher FASB -URI](http://www.xbrl.org/2003/role/exampleRef-Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 100 -Subparagraph (d) -Publisher FASB -URI) <https://asc.fasb.org/1943274/2147482078/820-10-55-100>Reference 4: <http://www.xbrl.org/2003/role/exampleRef-Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI> <https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(15\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(15))) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference> 6: <http://www.xbrl.org/2003/role/disclosureRef-Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI> <https://asc.fasb.org/1943274/2147482598/350-20-45-1>Reference 7: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph \(a\) -Publisher FASB -URI](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI) <https://asc.fasb.org/1943274/2147482573/350-20-50-1>Reference 8: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph \(h\) -Publisher FASB -URI](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (h) -Publisher FASB -URI) <https://asc.fasb.org/1943274/2147482573/350-20-50-1>Reference 9: [http://www.xbrl.org/2003/role/disclosureRef-Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.9-03\(10\)\(1\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(10)(1))) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147478546/942-210-S99-1> + Details Name: us-gaap Goodwill Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionSum of the carrying amounts of all intangible assets, excluding goodwill, as of the balance sheet date, net of accumulated amortization and impairment charges. + ReferencesReference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(a\)\(1\) -Publisher FASB -URI](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(1) -Publisher FASB -URI) <https://asc.fasb.org/1943274/2147482665/350-30-50-2>Reference 2: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(b\) -Publisher FASB -URI](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (b) -Publisher FASB -URI) <https://asc.fasb.org/1943274/2147482665/350-30-50-2>Reference 3: <http://www.xbrl.org/2003/role/disclosureRef-Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI> <https://asc.fasb.org/1943274/2147482686/350-30-45-1> + Details Name: us-gaap IntangibleAssetsNetExcludingGoodwill Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount after valuation and LIFO reserves of inventory expected to be sold, or consumed within one year or operating cycle, if longer. + ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI> <https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 2: [http://www.xbrl.org/2003/role/exampleRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph \(b\) -Publisher FASB -URI](http://www.xbrl.org/2003/role/exampleRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI) <https://asc.fasb.org/1943274/2147483467/210-10-45-1>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(6\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(6))) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference> 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(19\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(19))) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference> 5: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(22\)\)](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22))) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference> 6: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(24\)\)](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(24))) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference> 7: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(19\)\)](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(19))) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference> 8: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(25\)\)](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(25))) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference> 9: [http://www.xbrl.org/2003/role/disclosureRef-Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph \(c\) -Publisher FASB -URI](http://www.xbrl.org/2003/role/disclosureRef-Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI) <https://asc.fasb.org/1943274/2147481203/810-10-50-3>Reference 10: [http://www.xbrl.org/2003/role/disclosureRef-Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Subparagraph \(b\) -Publisher FASB -URI](http://www.xbrl.org/2003/role/disclosureRef-Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Subparagraph (b) -Publisher FASB -URI) <https://asc.fasb.org/1943274/2147481231/810-10-45-25>Reference 11: [http://www.xbrl.org/2003/role/disclosureRef-Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph \(bb\) -Publisher FASB -URI](http://www.xbrl.org/2003/role/disclosureRef-Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (bb) -Publisher FASB -URI) <https://asc.fasb.org/1943274/2147481203/810-10-50-3>Reference 12: [http://www.xbrl.org/2003/role/disclosureRef-Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.4-08\(g\)\(1\)\(ii\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii))) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference> 13: [http://www.xbrl.org/2003/role/disclosureRef-Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph \(c\) -Publisher FASB -URI](http://www.xbrl.org/2003/role/disclosureRef-Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI) <https://asc.fasb.org/1943274/2147481687/323-10-50-3>Reference 14: [http://www.xbrl.org/2003/role/disclosureRef-Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph \(f\) -Publisher FASB -URI](http://www.xbrl.org/2003/role/disclosureRef-Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI) <https://asc.fasb.org/1943274/2147482907/825-10-50-28>Reference 15: <http://www.xbrl.org/2003/role/exampleRef-Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 12 -Publisher FASB -URI> <https://asc.fasb.org/1943274/2147479168/946-830-55-12>Reference 16: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.6-04\(14\)\) -Publisher FASB -URI](http://www.xbrl.org/2003/role/disclosureRef-Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(14)) -Publisher FASB -URI) <https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference> 17: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph \(SX 210.13-01\(a\)\(4\)\(i\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i))) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference> 18: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph \(SX 210.13-01\(a\)\(4\)\(ii\)\)](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii))) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference> 19: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph \(SX 210.13-01\(a\)\(4\)\(iii\)\(A\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A))) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference> 20: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph \(SX 210.13-01\(a\)\(4\)\(iv\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv))) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference> 21: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph \(SX 210.13-01\(a\)\(5\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5))) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference> 22: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph \(SX 210.](http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)))

Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap LiabilitiesAndStockholdersEquity Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionTotal obligations incurred as part of normal operations that are expected to be paid during the following twelve months or within one business cycle, if longer. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(21)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-3Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-25Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (bb) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-3Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 8: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/214748367/210-10-45-5Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 11: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 20: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481404/852-10-50-7Reference 21: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481404/852-10-50-7 + Details Name: us-gaap LiabilitiesCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap LiabilitiesCurrentAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount, after deduction of unamortized premium (discount) and debt issuance cost, of long-term debt classified as noncurrent. Excludes lease obligation. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap LongTermDebtNoncurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionPresent value of lessee's discounted obligation for lease payments from operating lease, classified as current. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479041/842-20-45-1 + Details Name: us-gaap OperatingLeaseLiabilityCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionPresent value of lessee's discounted obligation for lease payments from operating lease, classified as noncurrent. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479041/842-20-45-1 + Details Name: us-gaap OperatingLeaseLiabilityNoncurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of lessee's right to use underlying asset under operating lease. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479041/842-20-45-1 + Details Name: us-gaap OperatingLeaseRightOfUseAsset Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionCarrying amount as of the balance sheet date of inventories not expected to be converted to cash, sold or exchanged within the normal operating cycle (such as inventory related to long-term contracts or program rights). + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(17)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap OtherInventoryNoncurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAggregate par or stated value of issued nonredeemable preferred stock (or preferred stock redeemable solely at the option of the issuer). This item includes treasury stock repurchased by the entity. Note: elements for number of nonredeemable preferred shares, par value and other disclosure concepts are in another section within stockholders' equity. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(21)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1 + Details Name: us-gaap PreferredStockValue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of asset related to consideration paid in advance for costs that provide economic benefits in future periods, and amount of other assets that are expected to be realized or consumed within one year or the normal operating cycle, if longer. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap PrepaidExpenseAndOtherAssetsCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount after accumulated depreciation, depletion and amortization of physical assets used in the normal conduct of business to produce goods and services and not intended for resale. Examples include, but are not limited to, land, buildings, machinery and equipment, office equipment, and furniture and fixtures. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -SubTopic 10 -Topic 360 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-7AReference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(8)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 360 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478451/942-360-50-1 + Details Name: us-gaap PropertyPlantAndEquipmentNet Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of accumulated undistributed earnings (deficit). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30)(a)(3)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(2)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480016/944-40-65-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (h)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480016/944-40-65-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480990/946-20-50-11Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(23)(a)(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(17)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 8: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1 + Details Name: us-gaap RetainedEarningsAccumulatedDeficit Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of equity (deficit) attributable to parent. Excludes temporary equity and equity attributable to noncontrolling interest. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.6-05(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-2Reference 8: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(6)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(7)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 11: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 12: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 13: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 14: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 4.E) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480418/310-10-S99-2 + Details Name: us-gaap StockholdersEquity Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap StockholdersEquityAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 10 R3.htm IDEA: XBRL DOCUMENT v3.24.2a.1 Consolidated Balance Sheets (Parenthetical) - \$ / shares Jun. 30, 2024 Dec. 31, 2023 Statement of Financial Position [Abstract] Å ¤ Preferred stock, par value \$ 0.0001 \$ 0.0001 Preferred stock, shares authorized 10,000,000 10,000,000 Preferred stock, shares issued 0 0 Preferred stock, shares outstanding 0 0 Common stock, par value \$ 0.0001 \$ 0.0001 Common stock, shares authorized 150,000,000 150,000,000 Common stock, shares issued 47,801,578 47,351,363 Common stock, shares outstanding 47,801,578 47,351,363 X - DefinitionFace amount or stated value per share of common stock. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap CommonStockParOrStatedValuePerShare Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemBalance Type: na Period Type: instant X - DefinitionThe maximum number of common shares permitted to be issued by an entity's charter and bylaws. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(16)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1 + Details Name: us-gaap CommonStockSharesAuthorized Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemBalance Type: na Period Type: instant X - DefinitionTotal number of common shares of an entity that have been sold or granted to shareholders (includes common shares that were issued, repurchased and remain in the treasury). These shares represent capital invested by the firm's shareholders and owners, and may be all or only a portion of the number of shares authorized. Shares issued include shares outstanding and shares held in the treasury. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap CommonStockSharesIssued Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemBalance Type: na Period Type: instant X - DefinitionNumber of shares of common stock outstanding. Common stock represent the ownership interest in a corporation. + ReferencesReference 1:

<http://fasb.org/us-gaap/role/ref/legacyRef> -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147481112/505-10-50-2>Reference 2: <http://fasb.org/us-gaap/role/ref/legacyRef> -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480566/210-10-599-1>Reference 3: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479134/946-220-599-3>Reference 5: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(16)(a)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479170/946-210-599-1>Reference 6: <http://www.xbrl.org/2009/role/commonPracticeRef> -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(7)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479134/946-220-599-3> + Details Name: us-gaap_CommonStockSharesOutstanding Namespace Prefix: us-gaap_Data Type: xbrli:sharesItem Type Balance Type: na Period Type: instant X - DefinitionFace amount or stated value per share of preferred stock nonredeemable or redeemable solely at the option of the issuer. + ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef> -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480566/210-10-599-1>Reference 2: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (a) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147481112/505-10-50-13> + Details Name: us-gaap_PREFERREDStockParOrStatedValuePerShare Namespace Prefix: us-gaap_Data Type: dtr-types:perShareItem Type Balance Type: na Period Type: instant X - DefinitionThe maximum number of nonredeemable preferred shares (or preferred stock redeemable solely at the option of the issuer) permitted to be issued by an entity's charter and bylaws. + ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef> -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480566/210-10-599-1>Reference 2: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(16)(a)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479170/946-210-599-1> + Details Name: us-gaap_PREFERREDStockSharesAuthorized Namespace Prefix: us-gaap_Data Type: xbrli:sharesItem Type Balance Type: na Period Type: instant X - DefinitionNumber of shares issued for nonredeemable preferred shares and preferred shares redeemable solely at option of issuer. Includes, but is not limited to, preferred shares issued, repurchased, and held as treasury shares. Excludes preferred shares classified as debt. + ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef> -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480566/210-10-599-1>Reference 2: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.6-05(4)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479170/946-210-599-2>Reference 3: <http://www.xbrl.org/2009/role/commonPracticeRef> -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479134/946-220-599-3>Reference 4: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(16)(a)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479170/946-210-599-1>Reference 5: <http://www.xbrl.org/2009/role/commonPracticeRef> -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(7)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479134/946-220-599-3> + Details Name: us-gaap_PREFERREDStockSharesOutstanding Namespace Prefix: us-gaap_Data Type: xbrli:sharesItem Type Balance Type: na Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_StatementOfFinancialPositionAbstract Namespace Prefix: us-gaap_Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration XML 11 R4.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Consolidated Statements of Operations - USD (\$) \$ in Thousands 3 Months Ended 6 Months Ended Jun. 30, 2024 Jun. 30, 2023 Jun. 30, 2023 Revenues [Abstract] Å Å Å Revenue \$ 87,166 \$ 46,700 \$ 162,165 \$ 141,276 Operating expenses: Å Å Å Cost of revenue (excluding amortization and depreciation) 8,055 4,599 14,352 12,155 Research and development 49,853 20,581 86,683 38,374 Selling, general and administrative 103,554 78,935 202,524 153,126 Loss in fair value of contingent consideration 2,160 6,053 748 5,891 Intangible asset amortization 1,590 1,589 3,179 3,161 Total operating expenses 165,212 111,757 307,486 212,707 Loss from operations (78,046) (65,057) (145,321) (71,431) Interest expense, net (1,299) (2,730) (2,381) (4,994) Loss before income taxes (79,345) (67,787) (147,702) (76,425) Income tax benefit (expense) 0 617 0 (1,963) Net loss \$ (79,345) \$ (67,170) \$ (147,702) \$ (78,388) Net loss per common share, basic \$ (1.67) \$ (1.54) \$ (3.11) \$ (1.8) Weighted average common shares outstanding, basic 47,573,229 43,669,820 47,482,602 43,597,131 Weighted average common shares outstanding, diluted 47,573,229 43,669,820 47,482,602 43,597,131 Product Sales Å Å Å Revenues [Abstract] Å Å Å Revenue \$ 86,520 \$ 46,017 \$ 160,616 \$ 74,586 License Revenue Å Å Å Revenues [Abstract] Å Å Å Revenue Å Å Å 65,735 Royalty Revenue Å Å Å Revenues [Abstract] Å Å Å Revenue \$ 646 \$ 683 \$ 1,549 \$ 955 X - DefinitionChange in fair value of contingent considerations. + ReferencesNo definition available. + Details Name: axsm_ChangeInFairValueOfContingentConsiderations Namespace Prefix: axsm_Data Type: xbrli:monetaryItem Type Balance Type: debit Period Type: duration X - DefinitionThe aggregate expense charged against earnings to allocate the cost of intangible assets (nonphysical assets not used in production) in a systematic and rational manner to the periods expected to benefit from such assets. As a noncash expense, this element is added back to net income when calculating cash provided by or used in operations using the indirect method. + ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef> -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482740/230-10-45-28>Reference 2: <http://www.xbrl.org/2003/role/exampleRef> -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 40 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482640/350-30-55-40>Reference 3: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(2) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482665/350-30-50-2>Reference 4: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482686/350-30-45-2> + Details Name: us-gaap_AmortizationOfIntangibleAssets Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItem Type Balance Type: debit Period Type: duration X - DefinitionCost of product sold and service rendered, excluding depreciation, depletion, and amortization. + ReferencesReference 1: <http://www.xbrl.org/2009/role/commonPracticeRef> -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(2)(a)) -SubTopic 10 -Topic 220 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147483621/220-10-599-2>Reference 2: <http://www.xbrl.org/2009/role/commonPracticeRef> -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(2)(d)) -SubTopic 10 -Topic 220 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147483621/220-10-599-2> + Details Name: us-gaap_CostOfGoodsAndServiceExcludingDepreciationAndAmortization Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItem Type Balance Type: debit Period Type: duration X - DefinitionTotal costs of sales and operating expenses for the period. + ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef> -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147483621/220-10-599-2> + Details Name: us-gaap_CostsAndExpenses Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItem Type Balance Type: debit Period Type: duration X - DefinitionThe amount of net income (loss) for the period per each share of common stock or unit outstanding during the reporting period. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147483443/250-10-50-6>Reference 2: <http://www.xbrl.org/2003/role/exampleRef> -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 52 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482635/260-10-55-52>Reference 3: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147476176/805-60-65-1>Reference 4: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147478666/740-323-65-2>Reference 5: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147483443/250-10-50-3>Reference 6: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 15 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482635/260-10-55-15>Reference 7: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480175/815-40-65-1>Reference 8: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480175/815-40-65-1>Reference 9: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147483443/250-10-50-11>Reference 10: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147483443/250-10-50-11>Reference 11: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147483443/250-10-50-11>Reference 12: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482689/260-10-45-2>Reference 13: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (d) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482689/260-10-45-60B>Reference 14: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147483443/250-10-50-4>Reference 15: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482662/260-10-50-1>Reference 16: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 10 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482689/260-10-45-10>Reference 17: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(27)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147478524/942-220-599-1>Reference 18: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(23)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147477250/944-220-599-1>Reference 19: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482689/260-10-45-7> + Details Name: us-gaap_EarningsPerShareBasic Namespace Prefix: us-gaap_Data Type: dtr-types:perShareItem Type Balance Type: na Period Type: duration X - DefinitionThe amount of net income (loss) for the period available to each share of common stock or common unit outstanding during the reporting period and to each share or unit that would have been outstanding assuming the issuance of common shares or units for all dilutive potential common shares or units outstanding during the reporting period. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147483443/250-10-50-6>Reference 2: <http://www.xbrl.org/2003/role/exampleRef> -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 52 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482635/260-10-55-52>Reference 3: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147476176/805-60-65-1>Reference 4: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147478666/740-323-65-2>Reference 5: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147483443/250-10-50-3>Reference 6: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 15 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482635/260-10-55-15>Reference 7: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480175/815-40-65-1>Reference 8: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480175/815-40-65-1>Reference 9: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147483443/250-10-50-11>Reference 10: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147483443/250-10-50-11>Reference 11: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147483443/250-10-50-11>Reference 12: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482689/260-10-45-2>Reference 13: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (d) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482689/260-10-45-60B>Reference 14: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147483443/250-10-50-4>Reference 15: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482662/260-10-50-1>Reference 16: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(25)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147483621/220-10-599-2>Reference 17: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(27)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147478524/942-220-599-1>Reference 18: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(23)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147477250/944-220-599-1>Reference 19: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482689/260-10-45-7> + Details Name: us-gaap_EarningsPerShareDiluted Namespace Prefix: us-gaap_Data Type: dtr-types:perShareItem Type Balance Type: na Period Type: duration X - DefinitionAmount of income (loss) from continuing operations, including income (loss) from equity method investments, before deduction of income tax expense (benefit), and income (loss) attributable to noncontrolling interest. + ReferencesReference 1: <http://www.xbrl.org/2009/role/commonPracticeRef> -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482810/280-10-50-22>Reference 2: <http://www.xbrl.org/2003/role/exampleRef> -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 48 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482785/280-10-55-48>Reference 3: <http://www.xbrl.org/2003/role/exampleRef> -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 48 -Publisher FASB -URI [https://asc.fasb.org/1943274/2147482785/280-10-](https://asc.fasb.org/1943274/2147482785/280-10-55-48)

[http://www.xbrl.org/2009/role/commonPracticeRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph \(f\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 4](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 4): [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph \(i\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 6](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30Reference 5): [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph \(c\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 8](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 7): [http://www.xbrl.org/2003/role/exampleRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 31 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-31Reference 10](http://www.xbrl.org/2003/role/disclosureRef-Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(11)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 9): [http://www.xbrl.org/2003/role/disclosureRef-Topic 942 -SubTopic 235 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.9-05\(b\)\(2\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477314/942-235-S99-1Reference 11](http://www.xbrl.org/2003/role/disclosureRef-Topic 942 -SubTopic 235 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-05(b)(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477314/942-235-S99-1Reference 11): [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph \(SX 210.5-03\(10\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 12](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(10)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 12): [http://www.xbrl.org/2003/role/disclosureRef-Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph \(i\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 2](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(15)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1 + Details Name: us-gaap IncomeLossFromContinuingOperationsBeforeIncomeTaxesExtraordinaryItemsNoncontrollingInterest Namespace Prefix: us-gaap Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of current income tax expense (benefit) and deferred income tax expense (benefit) pertaining to continuing operations. + ReferencesReference 1): [http://www.xbrl.org/2003/role/disclosureRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph \(ee\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 3](http://www.xbrl.org/2003/role/disclosureRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 3): [http://www.xbrl.org/2003/role/exampleRef-Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 231 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482663/740-10-55-231Reference 5](http://www.xbrl.org/2003/role/disclosureRef-Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-12Reference 4): <http://www.xbrl.org/2003/role/disclosureRef-Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-9Reference 6>: [http://www.xbrl.org/2003/role/disclosureRef-Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-8Reference 8](http://www.xbrl.org/2003/role/disclosureRef-Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 6.1.7) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479360/740-10-S99-1Reference 7): <http://www.xbrl.org/2003/role/disclosureRef-Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-10Reference 9>: [http://www.xbrl.org/2003/role/disclosureRef-Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.7-04\(9\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 11](http://www.xbrl.org/2003/role/disclosureRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 10): [http://www.xbrl.org/2003/role/disclosureRef-Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.4-08\(h\)\) -SubTopic 10 -Topic 235 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1 + Details Name: us-gaap IncomeTaxExpenseBenefit Namespace Prefix: us-gaap Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount after accretion \(amortization\) of discount \(premium\), and investment expense, of interest income and dividend income on nonoperating securities. + ReferencesReference 1">http://www.xbrl.org/2003/role/disclosureRef-Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph \(SX 210.5-03\(8\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 2](http://www.xbrl.org/2003/role/disclosureRef-Name Accounting Standards Codification -Section 45 -Paragraph 2 -Subparagraph (a) -SubTopic 20 -Topic 740 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482659/740-20-45-2Reference 12): [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph \(SX 210.5-03\(7\)\(a\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 3](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(7)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 3): [http://www.xbrl.org/2003/role/disclosureRef-Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(7)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2 + Details Name: us-gaap InvestmentIncomeNet Namespace Prefix: us-gaap Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe portion of profit or loss for the period, net of income taxes, which is attributable to the parent. + ReferencesReference 1): [http://www.xbrl.org/2003/role/disclosureRef-Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph \(g\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4](http://www.xbrl.org/2003/role/disclosureRef-Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-9Reference 3): [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph \(SX 210.5-03\(20\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 6](http://www.xbrl.org/2003/role/disclosureRef-Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5): [http://www.xbrl.org/2003/role/disclosureRef-Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph \(c\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 8](http://www.xbrl.org/2003/role/disclosureRef-Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(iii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 7): [http://www.xbrl.org/2003/role/disclosureRef-Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-6Reference 10](http://www.xbrl.org/2003/role/disclosureRef-Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 9): <http://www.xbrl.org/2003/role/disclosureRef-Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 11>: [http://www.xbrl.org/2003/role/disclosureRef-Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph \(i\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 13](http://www.xbrl.org/2003/role/disclosureRef-Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 12): [http://www.xbrl.org/2003/role/disclosureRef-Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 15](http://www.xbrl.org/2003/role/disclosureRef-Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-8Reference 14): [http://www.xbrl.org/2003/role/disclosureRef-Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph \(b\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 16](http://www.xbrl.org/2003/role/disclosureRef-Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 16): [http://www.xbrl.org/2003/role/exampleRef-Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-10Reference 18](http://www.xbrl.org/2003/role/disclosureRef-Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 17): [http://www.xbrl.org/2003/role/disclosureRef-Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.7-04\(18\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 20](http://www.xbrl.org/2003/role/disclosureRef-Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479105/946-220-45-7Reference 19): [http://www.xbrl.org/2003/role/disclosureRef-Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph \(SX 210.6-09\(1\)\(d\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-1Reference 22](http://www.xbrl.org/2003/role/disclosureRef-Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-07(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-1Reference 21): [http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph \(SX 210.13-01\(a\)\(4\)\(ii\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 24](http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 23): [http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph \(SX 210.13-01\(a\)\(4\)\(iv\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 26](http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 25): [http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph \(SX 210.13-02\(a\)\(4\)\(i\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 28](http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 27): [http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph \(SX 210.13-02\(a\)\(4\)\(iii\)\(B\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 30](http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 29): [http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph \(SX 210.13-02\(a\)\(5\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 32](http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 31): [http://www.xbrl.org/2003/role/disclosureRef-Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 34](http://www.xbrl.org/2003/role/disclosureRef-Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 33): [http://www.xbrl.org/2003/role/disclosureRef-Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1AReference 36](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 35): [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.9-04\(22\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1 + Details Name: us-gaap NetIncomeLoss Namespace Prefix: us-gaap Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap OperatingExpensesAbstract Namespace Prefix: us-gaap Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe net result for the period of deducting operating expenses from operating revenues. + ReferencesReference 1">http://www.xbrl.org/2009/role/commonPracticeRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 2](http://www.xbrl.org/2003/role/disclosureRef-Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 37): [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph \(f\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 3](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 3): [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph \(b\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30Reference 4](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30Reference 4): [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph \(ee\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 6](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 5): [http://www.xbrl.org/2003/role/exampleRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 31 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-31 + Details Name: us-gaap OperatingIncomeLoss Namespace Prefix: us-gaap Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of expense for research and development. Includes, but is not limited to, cost for computer software product to be sold, leased, or otherwise marketed and writeoff of research and development assets acquired in transaction other than business combination or joint venture formation or both. Excludes write-down of intangible asset acquired in business combination or from joint venture formation or both, used in research and development activity. + ReferencesReference 1">http://www.xbrl.org/2003/role/exampleRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 48 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-48Reference 2](http://fasb.org/us-gaap/role/ref/otherTransitionRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 7): [http://www.xbrl.org/2003/role/disclosureRef-Topic 730 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482916/730-10-50-1Reference 4](http://www.xbrl.org/2003/role/disclosureRef-Topic 985 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481283/985-20-50-2Reference 3): [http://www.xbrl.org/2003/role/disclosureRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 41 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-41Reference 2](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 912 -SubTopic 730 -Name Accounting Standards Codification -Section 25 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479532/912-730-25-1 + Details Name: us-gaap ResearchAndDevelopmentExpense Namespace Prefix: us-gaap Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount, excluding tax collected from customer, of revenue from satisfaction of performance obligation by transferring promised good or service to customer. Tax collected from customer is tax assessed by governmental authority that is both imposed on and concurrent with specific revenue-producing transaction, including, but not limited to, sales, use, value added and excise. + ReferencesReference 1): [http://www.xbrl.org/2003/role/disclosureRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph \(i\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 4](http://www.xbrl.org/2003/role/disclosureRef-Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 3): [http://www.xbrl.org/2003/role/disclosureRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph \(b\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 5](http://fasb.org/us-gaap/role/ref/otherTransitionRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 5): [http://www.xbrl.org/2003/role/disclosureRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 6](http://fasb.org/us-gaap/role/ref/otherTransitionRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 6): [http://www.xbrl.org/2003/role/disclosureRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 7](http://www.xbrl.org/2003/role/disclosureRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 7): [http://www.xbrl.org/2003/role/disclosureRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 8](http://www.xbrl.org/2003/role/disclosureRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 8): [http://www.xbrl.org/2003/role/disclosureRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 9](http://www.xbrl.org/2003/role/disclosureRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 9): [http://www.xbrl.org/2003/role/disclosureRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 10](http://www.xbrl.org/2003/role/disclosureRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 10): [http://www.xbrl.org/2003/role/disclosureRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 11](http://www.xbrl.org/2003/role/disclosureRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 11): [http://www.xbrl.org/2003/role/disclosureRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 12](http://www.xbrl.org/2003/role/disclosureRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 12): [http://www.xbrl.org/2003/role/disclosureRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 13](http://www.xbrl.org/2003/role/disclosureRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 13): [http://www.xbrl.org/2003/role/disclosureRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 14](http://www.xbrl.org/2003/role/disclosureRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 14): [http://www.xbrl.org/2003/role/disclosureRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 15](http://www.xbrl.org/2003/role/disclosureRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 15): [http://www.xbrl.org/2003/role/disclosureRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 16](http://www.xbrl.org/2003/role/disclosureRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 16):

https://asc.fasb.org/1943274/2147478524/942-220-S99-1 + Details Name: us-gaap_NetIncomeLoss Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionNumber of shares issued during the period as a result of an employee stock purchase plan. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef - Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1 + Details Name: us-gaap_StockIssuedDuringPeriodSharesEmployeeStockPurchasePlans Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionNumber of share options (or share units) exercised during the current period. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(02) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1 + Details Name: us-gaap_StockIssuedDuringPeriodSharesStockOptionsExercised Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItem Balance Type: na Period Type: duration X - DefinitionAggregate change in value for stock issued during the period as a result of employee stock purchase plan. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1 + Details Name: us-gaap_StockIssuedDuringPeriodValueEmployeeStockPurchasePlan Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionValue of stock issued as a result of the exercise of stock options. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(31)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1 + Details Name: us-gaap_StockIssuedDuringPeriodValueStockOptionsExercised Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of equity (deficit) attributable to parent. Excludes temporary equity and equity attributable to noncontrolling interest. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(31)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 5: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-12Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.6-05(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-2Reference 8: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(6)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(7)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 11: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(iii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 12: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 13: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 14: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 4.E) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480418/310-10-S99-2 + Details Name: us-gaap_StockholdersEquity Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant XML 13 R6.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Consolidated Statements of Cash Flows - USD (\$) in Thousands 3 Months Ended 6 Months Ended 12 Months Ended Jun. 30, 2024 Jun. 30, 2023 Jun. 30, 2023 Jun. 30, 2023 Dec. 31, 2023 Cash flows from operating activities: A A A Net loss A A \$ (147,702) A \$ (78,388) A Adjustments to reconcile net loss to net cash used in operating activities: A A A A Stock-based compensation expense A A 41,572 28,865 A Amortization of intangible asset \$ 1,590 \$ 1,589 3,179 3,161 A Amortization of debt discount A A 1,260 1,493 A Depreciation A A 272 190 A Loss in fair value of contingent consideration 2,160 6,053 748 5,891 A Non-cash lease expense A A 701 772 A Right-of-use asset amortization for finance lease 263 A 373 A Change in operating lease liability A A (54) (299) A Changes in operating assets and liabilities: A A A Accounts receivable, net A A (25,522) (29,711) A Inventories, net A A 585 (4,932) A Prepaid expenses and other current assets A A (3,693) (3,130) A Non-current inventory and other assets A A (1,029) (541) A Accounts payable A A 20,661 4,353 A Accrued expenses and other current liabilities A A 25,072 11,106 A Net cash used in operating activities A A (83,577) (61,170) A Cash flows from investing activities A A A Purchases of equipment A A (150) (204) A Net cash used in investing activities A A (150) (204) A Cash flows from financing activities A A A Proceeds from draw down of debt A A 85,000 A Payment of debt issuance costs A A (1,441) A Payments on principal portion of finance lease obligation A A (349) A Proceeds from issuance of common stock upon financing A A 11,264 225,000 A Cash paid for common stock issuance costs A A (225) (13,622) A Proceeds from issuance of common stock upon exercise of options and under employee stock purchase plan A A 9,242 6,957 A Payment of contingent consideration A A (3,795) (3,049) A Payments of tax withholdings on stock award A A (2,946) (1,200) A Net cash provided by financing activities A A 13,191 297,645 A Net (decrease) increase in cash A A (70,536) 236,271 A Cash at beginning of period A A 386,193 200,842 A 200,842 Cash at end of period A 315,657 \$ 437,113 315,657 437,113 \$ 386,193 Supplemental disclosures of cash flow information: A A A A Interest paid A A 9,911 7,132 A Operating lease right-of-use asset obtained in exchange for operating lease liability A A \$ 7,764 A Finance lease right-of-use asset obtained in exchange for finance lease liability A A \$ 4,572 A X - DefinitionChange in fair value of contingent considerations. + ReferencesNo definition available. + Details Name: axsm_ChangeInFairValueOfContingentConsiderations Namespace Prefix: axsm_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionChange in operating lease liability. + ReferencesNo definition available. + Details Name: axsm_ChangeInOperatingLeaseLiability Namespace Prefix: axsm_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe increase (decrease) during the reporting period in the value of prepaid expenses and other current assets not separately disclosed in the statement of cash flows, for example, deferred expenses, intangible assets, or income taxes. + ReferencesNo definition available. + Details Name: axsm_IncreaseDecreaseInPrepaidExpenseAndOtherAssetsCurrent Namespace Prefix: axsm_ Data Type: xbrli:monetaryItemType Balance Type: duration X - DefinitionNon-cash lease expense. + ReferencesNo definition available. + Details Name: axsm_NonCashLeaseExpense Namespace Prefix: axsm_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionNon-current inventory and other assets + ReferencesNo definition available. + Details Name: axsm_NonCurrentInventoryAndOtherAssets Namespace Prefix: axsm_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionPayment Of Contingent Consideration + ReferencesNo definition available. + Details Name: axsm_PaymentOfContingentConsideration Namespace Prefix: axsm_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionProceeds from issuance of common stock upon exercise of options and under employee stock purchase plan. + ReferencesNo definition available. + Details Name: axsm_ProceedsFromIssuanceOfCommonStockUponExerciseOfOptionsAndUnderEmployeeStockPurchasePlan Namespace Prefix: axsm_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_AdjustmentsNoncashItemsToReconcileNetIncomeLossToCashProvidedByUsedInOperatingActivitiesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of noncash expense included in interest expense to amortize debt discount and premium associated with the related debt instruments. Excludes amortization of financing costs. Alternate captions include noncash interest expense. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(8)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1F -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1FReference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-3 + Details Name: us-gaap_AmortizationOfDebtDiscountPremium Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe aggregate expense charged against earnings to allocate the cost of intangible assets (nonphysical assets not used in production) in a systematic and rational manner to the periods expected to benefit from such assets. As a noncash expense, this element is added back to net income when calculating cash provided by or used in operations using the indirect method. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482640/350-30-55-40Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482686/350-30-45-2 + Details Name: us-gaap_AmortizationOfIntangibleAssets Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of cash and cash equivalents, and cash and cash equivalents restricted to withdrawal or usage. Excludes amount for disposal group and discontinued operations. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-8Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-24Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 45 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-4 + Details Name: us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalents Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of increase (decrease) in cash, cash equivalents, and cash and cash equivalents restricted to withdrawal or usage; including effect from exchange rate change. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-24Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 1 -SubTopic 230 -Topic 830 -Publisher FASB -URI https://asc.fasb.org/1943274/2147477401/830-230-45-1 + Details Name: us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsPeriodIncreaseDecreaseIncludingExchangeRateEffect Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe amount of expense recognized in the current period that reflects the allocation of the cost of tangible assets over the assets' useful lives. Includes production and non-production related depreciation. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 360 -SubTopic 10 -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-1 + Details Name: us-gaap_Depreciation Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of cash outflow for principal payment on finance lease. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (g)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-4Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20

-Name Accounting Standards Codification -Section 45 -Paragraph 5 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479041/842-20-45-5 + Details Name: us-gaap_FinanceLeasePrincipalPayments Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of amortization expense attributable to right-of-use asset from finance lease. + ReferencesReference 1:

SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 53 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479589/842-20-55-53Reference 2:

â€œAcquisitionâ€). Sunosi is a product approved by the U.S. Food and Drug Administration (the “FDA”) and marketed in the U.S. to improve wakefulness in adult patients with excessive daytime sleepiness (â€œEDSâ€) associated with narcolepsy or obstructive sleep apnea. Sunosi was approved in Europe in January 2020 by the European Commission. In February 2023, the Company announced a licensing transaction with Atnahs Pharma UK Limited (â€œPharmanoviaâ€) to market Sunosi in Europe and certain countries in the Middle East / North Africa. In August 2022, the Company announced the FDA approval of Auvelity, and in October 2022, the U.S. commercial availability of Auvelity for the treatment of major depressive disorder in adults. The accompanying unaudited interim consolidated financial statements have been prepared by the Company in accordance with accounting principles generally accepted in the United States (â€œU.S. GAAPâ€) for interim information and pursuant to the rules and regulations of the Securities and Exchange Commission (the “SEC”) for reporting on Form 10-Q. Accordingly, certain information and footnote disclosures normally included in financial statements prepared in accordance with U.S. GAAP have been condensed or omitted pursuant to such rules and regulations. These unaudited interim consolidated financial statements should be read in conjunction with the audited financial statements and related notes included in the Company’s Annual Report on Form 10-K for the year ended December 31, 2023 filed with the SEC on February 23, 2024. In the opinion of management, the unaudited interim consolidated financial statements reflect all adjustments, which are normal recurring adjustments, necessary for the fair presentation of the financial information for the interim periods. The results of operations for the three and six months ended June 30, 2024 are not necessarily indicative of the operating results for the full fiscal year or any future period. Liquidity and Capital Resources The Company has incurred operating losses since its inception and expects to continue to incur operating losses and may never become profitable. As of June 30, 2024, the Company had an accumulated deficit of \$983.3 million. The Company’s primary sources of cash have been proceeds from the sales of Sunosi and Auvelity, the issuance and sale of its common stock in public offerings, and the issuance of debt. The Company’s ability to achieve profitability depends on a number of factors, including its ability to obtain regulatory approval for its product candidates, successfully complete any post-approval regulatory obligations and successfully commercialize its product candidates alone or in partnership with third parties. The Company may continue to incur substantial operating losses even as it continues to generate revenues from its products. The Company believes its existing cash will be sufficient to fund its anticipated operating cash requirements for at least twelve months following the date of this filing. During that time, the Company expects that its expenses will increase primarily due to the commercialization of Sunosi and Auvelity while continuing to further develop the Company’s pipeline assets. The Company may use a combination of public and private equity offerings, debt financings, other third-party funding, strategic alliances, licensing arrangements or marketing and distribution arrangements if market conditions are favorable or as a result of other strategic considerations to finance its future cash needs. The Company’s common stock is listed on The Nasdaq Global Market and trades under the symbol “AXSM.” X - References No definition available. + Details Name: us-gaap_OrganizationConsolidationAndPresentationOfFinancialStatementsAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - Definition The entire disclosure for organization, consolidation and basis of presentation of financial statements disclosure. + References Reference 1: http://www.xbrli.org/2003/role/disclosureRef -Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480424/946-10-50-1-Reference 2: http://www.xbrli.org/2003/role/disclosureRef -Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480424/946-10-50-2-Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 810 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/810/tableOfContentReference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/205/tableOfContent + Details Name: us-gaap_OrganizationConsolidationAndPresentationOfFinancialStatementsDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 17 R10.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Summary of Significant Accounting Policies 6 Months Ended Jun. 30, 2024 Accounting Policies [Abstract] A Summary of Significant Accounting Policies Note 2. Summary of Significant Accounting Policies Significant Risks and Uncertainties The Company’s operations are subject to a number of factors that can affect its operating results and financial condition. Such factors include, but are not limited to: the results of clinical testing and trial activities of the Company’s product candidates; the Company’s ability to obtain regulatory approval to market its products; competition from products manufactured and sold or being developed by other companies; the price of, and demand for, the Company’s products; the Company’s ability to negotiate favorable licensing or other manufacturing and marketing agreements for its products; and the Company’s ability to raise additional capital. If the Company’s commercialization of its products is not financially successful, it will be unable to generate sufficient recurring product revenue to achieve and maintain profitability. The Company currently has two commercially approved products, Auvelity and Sunosi, and there can be no assurance that the Company’s research and development efforts will result in successfully commercialized products in addition to Auvelity and Sunosi. Developing and commercializing a product requires significant time and capital and is subject to regulatory review and approval as well as competition from other biotechnology and pharmaceutical companies. The Company operates in an environment of rapid change and is dependent upon the continued services of its employees and consultants and obtaining and protecting intellectual property. Use of Estimates Management considers many factors in developing the estimates and assumptions that are used in the preparation of these financial statements. Management must apply significant judgment in this process. In addition, other factors may affect estimates, including expected business and operational changes, sensitivity and volatility associated with the assumptions used in developing estimates, and whether historical trends are expected to be representative of future trends. The estimation process often may yield a range of potentially reasonable estimates of ultimate future outcomes, and management must select an amount that falls within that range of reasonable estimates. This process may result in actual results differing materially from those estimated amounts used in the preparation of the financial statements if these results differ from historical experience, or other assumptions do not turn out to be substantially accurate, even if such assumptions are reasonable when made. In preparing these financial statements, management used significant estimates in the following areas, among others: stock-based compensation expense; determination of fair value of warrants; accounting for research and development costs; accounting for acquisitions; impairments of goodwill and the intangible asset; determination of fair value of contingent consideration; chargebacks, cash discounts, sales rebates, returns and other adjustments; and the recoverability of the Company’s net deferred tax assets and related valuation allowance. Revenue Recognition In accordance with Accounting Standards Codification (â€œASCâ€) Topic 606, Revenue from Contracts with Customers (â€œASC 606â€) the Company recognizes revenue when the customer obtains control of a promised good or service, in an amount that reflects the consideration that the Company expects to receive in exchange for the good or service. Transfer of control is based on contractual performance obligations, which occurs upon transfer of the title along with the physical transfer of the Company’s goods to the customer, as that is when the customer has obtained control of significantly all of the economic benefits and the Company obtains a right of payment. To determine revenue recognition for arrangements that the Company determines are within the scope of ASC 606, the Company performs the following five steps: (i) identify the contract(s) with a customer, (ii) identify the performance obligations in the contract, (iii) determine the transaction price, (iv) allocate the transaction price to the performance obligations in the contract, and (v) recognize revenue when (or as) the entity satisfies a performance obligation. The Company only applies the five-step model to arrangements that meet the definition of a contract under ASC 606, including when it is probable that the Company will collect the consideration it is entitled to in exchange for the goods or services it transfers to the customer. At contract inception, once the contract is determined to be within the scope of ASC 606, the Company assesses the goods or services promised within each contract and determines those that are performance obligations and assesses whether each promised good or service is distinct. The Company then recognizes as revenue the amount of the transaction price that is allocated to the respective performance obligation when (or as) the performance obligation is satisfied. For a complete discussion of accounting for product sales, see Product Sales, net (below) and Note 13. Revenues. License Agreements The Company generates revenue from license or similar agreements with pharmaceutical companies for the development and commercialization of certain products. Such agreements may include the transfer of intellectual property rights in the form of licenses. Payments made by the customer may include non-refundable upfront fees, payments based upon the achievement of defined milestones and royalties on sales of products. If a license to the Company’s intellectual property is determined to be distinct from the other performance obligations identified in the arrangement, the Company recognizes the transaction price allocated to the license as revenue upon transfer of control of the license. All other promised goods or services in the agreement are evaluated to determine if they are distinct. If they are not distinct, they are combined with other promised goods or services to create a bundle of promised goods or services that is distinct. Optional future services where any additional consideration paid to the Company reflects their standalone selling prices do not provide the customer with a material right, and, therefore, are not considered performance obligations. If optional future services are priced in a manner which provides the customer with a significant or incremental discount, they are material rights, and are accounted for as separate performance obligations. Contingent milestones at contract inception are estimated to the extent that it is probable that a significant revenue reversal would not occur and are included in the transaction price using the most likely amount method. Milestone payments that are not within the Company’s control, such as regulatory approvals, are not considered probable of being achieved until those approvals are received, and, therefore, the variable consideration is constrained. The transaction price is then allocated to each performance obligation on a relative stand-alone selling price basis, for which the Company recognizes revenue as or when the performance obligations under the contract are satisfied. At the end of each reporting period, the Company re-evaluates the probability of achieving development or sales-based milestone payments that a significant revenue reversal would not occur and, if necessary, adjusts the estimate of the overall transaction price. Any such adjustments are recorded on a cumulative catch-up basis, which would affect license and other revenue, as well as earnings, in the period of adjustment. For arrangements that include sales-based royalties, including sales-based milestone payments, and a license of intellectual property that is deemed to be the predominant item to which the royalties relate, revenue is recognized at the later of (i) when the related sales occur, or (ii) when the performance obligation to which some or all of the royalties have been allocated has been satisfied (or partially satisfied). Product Sales, net Revenues from product sales are recorded net of reserves for variable consideration. These reserves reflect the Company’s best estimate of the amount of consideration to which the Company is entitled based on the terms of the contracts. The Company sells Sunosi and Auvelity in the United States to wholesale distributors with whom the Company has entered into formal agreements (collectively, the “Distributors”). These Distributors subsequently resell the Company’s products to retail pharmacies. The Company sells Sunosi, on a product supply basis, to Pharmanovia, and Sunosi is subsequently sold within the licensed territories. The Company does not sell products under consignment arrangements, and the collection of proceeds from product sales is not contingent upon customers’ sale of the goods to third parties. See Note 13. Revenues for a further breakout of product sales, net, for the three and six months ended June 30, 2024 and 2023. Reserves for Variable Consideration The Company’s estimates of variable consideration and determination of whether to include estimated amounts in the transaction price are based largely on an assessment of its anticipated performance and all information (historical, current and forecasted) that is reasonably available. These reserves reflect the Company’s best estimate of the amount of consideration to which the Company is entitled based on the terms of the contracts and are classified as reductions to accounts receivables, net if payable to a customer or accrued expenses and other current liabilities if payable to a third-party. The amount of variable consideration that is included in the transaction price may be constrained and is included in the net sales price only to the extent that is considered probable that a significant reversal in the amount of the cumulative revenue recognized will not occur in a future period. Actual amounts of consideration ultimately received may differ from the estimates. If actual results in the future vary from our estimates, the Company will adjust these estimates, which would affect net product revenue and earnings in the period such variances become known. The provision for rebates, discounts, and other incentives is based on expected patient usage, as well as inventory levels in the distribution channel to determine the contractual obligation to the benefit providers. Additionally, sales are generally made with a limited right of return under certain conditions. Revenues are recorded net of provisions for rebates, discounts, and other incentives and returns, which are established at the time of sale. The Company uses customer segment utilization mix data, changes to product price, government pricing calculations and prior payment history in order to estimate the variable consideration. Amounts accrued for rebates, discounts, and other incentives are adjusted when trends indicate that adjustment is appropriate and to reflect actual experience. Trade Discounts and Allowances - The Company generally provides discounts which include incentive fees that are explicitly stated in the Company’s contracts and are recorded as a reduction of revenue in the period the related product revenue is recognized. In addition, the Company compensates (through trade discounts and allowances) its distributors for distribution services and data. These payments have been recorded as a reduction to product sales as well as a reduction to accounts receivables, net on the consolidated balance sheets. Product Returns - The Company generally offers a limited right of return for product that has been purchased from the Company based on the product’s expiration date. The Company estimates the amount of its product sales that may be returned and records this estimate as a reduction of revenue in the period the related product sale is recognized, as well as a component of accrued expense and other current liabilities. The Company currently estimates product return liabilities using available industry data, historical product sales information, and actual returns experience. Chargebacks and Discounts - Chargebacks for fees and discounts to providers represent the estimated obligations resulting from contractual commitments to sell products at prices lower than the list prices charged to distributors. Distributors charge the Company for the difference between what they pay for the product and the ultimate selling price. These reserves are established in the same period that the related product sales are recognized, resulting in a reduction to product sales and accounts receivables, net. Rebates - Rebates apply to: Medicaid, managed care, and supplemental rebates to all applicable states as defined by the statutory government pricing calculation requirements under the Medicaid Drug Rebate Program. Tricare rebates to the TRICARE third-party administrator are based on the statutory calculation defined in the agreement with the Defense Health Agency. Part D and Commercial Managed Care rebates are paid based on the contracts with Pharmacy Benefit Managers (â€œPBM’sâ€) and Managed Care Organizations. Rebates are paid to these entities upon receipt of an invoice from the contracted entity which is based on the utilization of the product by the members of the contracted entity. Allowances for rebates also include amounts due under the Inflation Reduction Act of 2022 for Medicare Part D. The Company estimates these rebates and records such estimates in the same period the related product sales are recognized, resulting in a reduction to product sales as well as a component of accrued expenses and other current liabilities. Coverage Gap - The Medicare Part D coverage gap is a period of consumer payment for prescription medication costs which lies between the initial coverage limit and the catastrophic-coverage threshold, when the patient is a member of a Medicare Part D prescription-drug program administered by the Centers for Medicare & Medicaid Services. The Company estimates the percentage of goods sold to patients in the Coverage Gap and adjusts the transaction price for such discount at the time of sale resulting in a reduction to product sales as well as a component of accrued expenses and other current liabilities. Other Incentives - Other incentives which the Company offers include voluntary patient assistance programs, such as the co-pay assistance program, which are intended to provide financial assistance to qualified commercially-insured patients with prescription drug co-payments required by payers. The calculation of the accrual for co-pay assistance is based on an estimate of claims and the cost per claim that the Company expects to receive associated with product that has been recognized as revenue. The reserves are recorded in the same period the related revenue is recognized, resulting in a reduction of product sales as well as a component of accrued expenses and other current liabilities. The Company makes significant estimates and judgments that materially affect its recognition of net product revenue. Claims by third-party payors for rebates, chargebacks and discounts frequently are submitted to the Company significantly after the related sales, potentially resulting in adjustments in the period in which the new information becomes known. The Company will adjust its estimates based on new information, including information regarding actual rebates, chargebacks and discounts for its products, as it becomes available. Cost of Revenue The Company’s cost of revenue consists of cost of product sales and a fee sharing expense related to the upfront license revenue received. Cost of product sales primarily include direct costs (inclusive of material, shipping, handling, and manufacturing costs), overhead and product royalties. Cost of product sales excludes depreciation and amortization. In the first quarter of 2023, the Company recorded a \$5.0 million fee sharing expense related to the upfront license revenue received. The Company assumed royalty and sales-based milestone commitments of Jazz to SK Biopharmaceuticals Co., Ltd. (â€œSKâ€) and Aerial Biopharma, LLC (â€œAerialâ€). SK is the originator of Sunosi and retains rights in 12 Asian markets, including China, Korea and Japan. In 2014, Jazz acquired from Aerial worldwide rights to Sunosi excluding those Asian markets stated previously. The assumed commitments to SK and Aerial include single-digit tiered royalties based on the Company’s sales of Sunosi, and the Company is committed to pay up to \$165 million based on revenue milestones and \$1 million based on development milestones. Additionally, the Company pays a royalty to Antecip Bioventures II LLC (â€œAntecipâ€), an entity owned by Axsome’s Chief Executive Officer and Chairman of the Board of Directors (the “Board”), Herriot Tabuteau, M.D., equal to 3.0% of Auvelity net sales. Foreign Currency Translation Revenues and expenses denominated in foreign currency are translated into U.S. dollars at the exchange rate on the date they are incurred. Assets and liabilities of foreign operations are translated at period-end exchange rates. The effect of exchange rate fluctuations on translating foreign currency into U.S. dollars is

included in the Statements of Operations and is not material to the Company's consolidated financial statements. Segment Information Operating segments are defined as components of an enterprise for which separate discrete information is available for evaluation by the chief operating decision maker or decision-making group in deciding how to allocate resources and in assessing performance. The Company views its operations and manages its business as one operating segment and reporting unit, which is the business of developing and delivering novel therapies for the management of CNS disorders. Cash and Cash Equivalents The Company considers all highly liquid investments that have maturities of three months or less when acquired to be cash equivalents. The Company's cash and cash equivalents includes holdings in checking and overnight sweep accounts. The Company's cash equivalents, which are money market funds held in a sweep account, are measured at fair value on a recurring basis. As of June 30, 2024, the balance of cash and cash equivalents was \$315.7 million, which approximates fair value and was determined based upon Level 1 inputs. The sweep account is valued using quoted market prices with no valuation adjustments applied. Accordingly, these securities are categorized as Level 1 on the fair value hierarchy. Concentration of Risk Concentration of Credit Risk - Financial instruments that potentially subject the Company to a concentration of credit risk consist of cash and cash equivalents. The Company maintains its cash deposits at financial institutions, which cash deposits exceed insured limits. At June 30, 2024, the majority of the Company's cash was held by two financial institutions and amounts on deposit were in excess of government-provided insurance limits. The Company places its cash and cash equivalents in what it believes to be high credit quality banks and money market funds and has not recognized any losses from credit risks on such accounts since inception. See Accounts Receivables, net below for further information. Concentration of Risk, Other - The Company has a limited number of contract manufacturers for its products. At times, the Company may have only one manufacturer or supplier for its products. Business Combination The Company accounted for the Acquisition as a business combination using the acquisition method of accounting, which requires that all identifiable assets acquired, and liabilities assumed be recorded at their estimated fair values. The excess of the fair value of purchase consideration over the fair values of identifiable assets and liabilities is recorded as goodwill. When determining the fair values of assets acquired and liabilities assumed, management makes significant estimates and assumptions. Critical estimates in valuing the intangible asset include but are not limited to future expected cash flows from acquired patented technology. Management's estimates of fair value are based upon assumptions believed to be reasonable, but are inherently uncertain and unpredictable and, as a result, actual results may differ from estimates. As a result of the Acquisition, the Company recorded goodwill and an intangible asset. Goodwill Goodwill is deemed to have an indefinite life and therefore not amortized. The Company tests the carrying amounts of goodwill for recoverability on an annual basis or more frequently if events or changes in circumstances indicate that the asset might be impaired. When reviewing goodwill for impairment, the Company first evaluates the qualitative factors to determine whether it is more likely than not that the fair value of a reporting unit is less than its carrying amount. If the qualitative factors determine it is necessary to complete a goodwill impairment test, the fair value of the relevant reporting unit is determined and compared to its carrying value. If the fair value is greater than the carrying value, then the carrying value is deemed to be recoverable, and no further action is required. If the fair value estimate is less than the carrying value, goodwill is considered impaired for the amount by which the carrying amount exceeds the reporting unit's fair value, and a charge is reported in impairment of goodwill in the Company's consolidated statements of operations. The Company completes its annual goodwill assessment as of December 31. As of June 30, 2024, the Company has determined that it has one reporting unit. The Company has not identified any events or changes in circumstances that indicate the existence of potential impairment of goodwill during the six months ended June 30, 2024. The balance of goodwill at June 30, 2024 and December 31, 2023 remains unchanged at \$12.0 million. Intangible Asset The Company's intangible asset is amortized using the straight-line method over its estimated period of benefit of ten years. The Company evaluates recoverability of the intangible asset periodically by considering events or changes in circumstances that may warrant revised estimates of useful lives or that indicate the asset may be impaired. The Company has not identified any events or changes in circumstances that indicate the existence of potential impairment of the intangible asset during the six months ended June 30, 2024. Contingent Consideration Consideration paid in a business combination may include potential future payments that are contingent upon the acquired business achieving certain milestones in the future (contingent consideration). The royalty payments due to Jazz are a high single-digit royalty on the Company's U.S. net sales of Sunosi in the current indication and a mid-single-digit royalty on the Company's U.S. net sales of Sunosi for future indications. Contingent consideration liabilities are measured at their estimated fair value as of the date of acquisition, with subsequent changes in fair value recorded in the consolidated statements of operations during such period a change is recognized. The Company estimates the fair value of the contingent consideration as of the acquisition date and reporting periods thereafter using the probability weighted income approach and makes significant assumptions, including estimated future sales of Sunosi in current and future indications, timing of regulatory and commercial milestone achievements, probability of technical and regulatory success rates, and discount rates. Contingent consideration liabilities expected to be settled within 12 months after the balance sheet date are presented in current liabilities, with the non-current portion recorded within total liabilities in the consolidated balance sheets. Fair Value Measurements Fair value is defined as the exchange price that would be received for an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants at the measurement date. Assets and liabilities that are measured at fair value are reported using a three-level fair value hierarchy that prioritizes the inputs used to measure fair value. This hierarchy maximizes the use of observable inputs and minimizes the use of unobservable inputs. The three levels of inputs used to measure fair value are as follows: Level 1 Quoted prices in active markets for identical assets or liabilities that the Company has the ability to access at the measurement date. Level 2 Inputs other than quoted prices in active markets that are observable for the asset or liability, either directly or indirectly. Level 3 Unobservable inputs for which there is little or no market data, which require the reporting entity to develop its own assumptions. To the extent that valuation is based on models or inputs that are less observable or unobservable in the market, the determination of fair value requires more judgment. Accordingly, the degree of judgment exercised by the Company in determining fair value is greatest for instruments categorized in Level 3. An asset's or liability's level within the fair value hierarchy is based on the lowest level of any input that is significant to the fair value measurement. The Company's financial instruments are cash and cash equivalents, accounts receivable, accounts payable, accrued expenses and other liabilities, contingent warrant liability, current and long-term debt, and current and non-current contingent consideration. The Company's Level 1 financial instruments include cash and cash equivalents, accounts receivable, accounts payable, and accrued expenses and other liabilities. They are considered Level 1 as the carrying values reported in the accompanying consolidated financial statements approximate their respective fair values due to their short-term maturities. The carrying value of debt on the Company's balance sheet is estimated to approximate its fair value. The Company's Level 3 financial instruments include contingent warrant liability and current and non-current contingent consideration due to the significant unobservable inputs required in determining their respective fair values. The Company categorized the fair value of contingent consideration liabilities as Level 3 within the fair value hierarchy as the estimate is based on significant unobservable inputs requiring management judgment. The fair value of contingent consideration liabilities is estimated by using the probability weighted income approach using significant assumptions, including estimated future sales of Sunosi in current and future indications, timing of regulatory and commercial milestone achievements, probability of technical and regulatory success and discount rates. Contingent consideration liabilities are subject to remeasurement at each prospective balance sheet date, with any changes in the fair value recorded in the consolidated statements of operations. See Note 6. Fair Value of Financial Instruments for further detail. The Company estimated the fair value of the warrant liabilities using the Black-Scholes model based on key assumption and inputs. The Company utilizes a probability assessment to estimate the likelihood of vesting for the remaining Loan Agreement (as defined below) warrants and allocated the probability of occurrence percentage to the fair values calculated, and, therefore, is considered Level 3 within the fair value hierarchy. The Company accounts for warrants anticipated to be issued in the future under the Loan Agreement as liabilities and measures them at fair value using the Black-Scholes valuation model. The warrants are subject to remeasurement at each prospective balance sheet date, with any changes in the fair value recorded in the consolidated statements of operations. See Note 6. Fair Value of Financial Instruments for further detail. Accounts Receivable, net The Company's accounts receivable, net, arise from product sales and represent amounts due from its customers. They are generally stated at the gross sales amount, less reserves resulting from trade discounts and allowances and chargebacks. Accounts receivables typically have a standard payment term of 60 days or less and do not bear interest. The Company monitors the financial performance and creditworthiness of its customers so that it can properly assess and respond to changes in the customers' credit profiles. During the first quarter of 2023, the Company began distributing products through wholesale customers. The Company estimates expected credit losses of its accounts receivable by assessing the risk of loss and available relevant information about collectability, including historical credit losses, existing contractual payment terms, actual payment patterns of its customers, individual customer circumstances, and reasonable and supportable forecast of economic conditions expected to exist throughout the contractual life of the receivable. The Company has not historically experienced significant credit losses. Based on its assessment, as of June 30, 2024, the Company has not recorded any allowances for doubtful accounts receivable. For further information about accounts receivable, see Note 3. Accounts Receivable, net. Debt Issuance Costs Debt issuance costs consist of costs incurred in obtaining long-term financing. These costs are classified on the consolidated balance sheet as a direct deduction from the carrying amount of the related debt liability. These expenses are deferred and amortized as part of interest expense in the consolidated statement of operations using the effective interest rate method over the term of the debt agreement. Inventory The Company values its inventories at the lower of cost or estimated net realizable value. The remaining inventory associated with the Acquisition is stated at fair value due to purchase accounting. The Company performs an assessment of the recoverability of capitalized inventory during each reporting period, and it writes down any excess and obsolete inventories to their estimated net realizable value in the period in which the impairment is first identified. Such impairment charges, if they occur, are recorded within cost of revenue. The Company capitalizes inventory costs associated with the Company's products after regulatory approval when, based on management's judgment, future commercialization is considered probable and the future economic benefit is expected to be realized. Inventory acquired and manufactured prior to receipt of regulatory approval of a product candidate is expensed as research and development expense as incurred. Inventory that can be used in either the production of clinical or commercial product is expensed as research and development expense when selected for use in a clinical manufacturing campaign. Inventory levels are evaluated for amounts that would be sold within one year. If the level of inventory exceeds the estimated amount that would be sold beyond the next 12 months, the Company classifies the estimate of such inventory as non-current. Equipment, net Equipment consists primarily of computer equipment and is recorded at cost. Equipment is depreciated on a straight-line basis over its estimated useful life, which the Company estimates to be three years. When equipment is sold or otherwise disposed of, the cost and related accumulated depreciation are removed from the accounts and the resulting gain or loss is included in operating expenses. Research and Development Costs Research and development costs are expensed as incurred. Research and development expenses consist primarily of employee-related expenses, including salaries, benefits, travel and stock-based compensation expense, contract services, costs incurred to third-party service providers for conducting research, preclinical and clinical studies, laboratory supplies, product license fees, consulting and other related expenses. Research, preclinical and clinical study expenses are estimated based on services performed, pursuant to contracts with third-party research and development organizations that conduct and manage research, preclinical and clinical activities on the Company's behalf, including discussions with internal management personnel and external service providers as to the progress or stage of completion of services and the contracted fees to be paid for such services. If the actual timing of the performance of services or the level of effort varies from the original estimates, accruals are adjusted accordingly. Payments associated with licensing agreements to acquire licenses to develop, use, manufacture and commercialize products that have not reached technological feasibility and do not have alternative future use are expensed as incurred. Advertising Costs Advertising costs are included in selling, general and administrative expenses and are expensed as incurred. The Company considers advertising costs as expenses related to the promotion of the Company's commercial products. For the three and six months ended June 30, 2024, advertising costs were \$30.3 million and \$54.3 million, respectively. For the three and six months ended June 30, 2023, advertising costs were \$26.7 million and \$48.1 million, respectively. Income Taxes Income taxes are accounted for under the asset and liability method. Under this method, deferred tax assets and liabilities are recognized for the future tax consequences attributable to the differences between the financial statement carrying amounts of existing assets and liabilities and their respective tax bases, operating losses, and tax credit carryforwards. Deferred tax assets and liabilities are measured using enacted tax rates expected to apply to taxable income in the years in which those temporary differences are expected to be recovered or settled. The effect of a change in tax rates on deferred tax assets and liabilities is recognized in income in the period that includes the enactment date. Valuation allowances are provided if, based upon the weight of available evidence, it is more likely than not that some or all of the deferred tax assets will not be realized. The Company estimates an annual effective tax rate of 0% for the year ended December 31, 2024 and has not recorded an income tax benefit for the three and six months ended June 30, 2024 since it is projecting losses and has incurred year to date losses in all jurisdictions from which the Company does not benefit due to the full valuation allowance position against the Company's deferred tax assets. The Company recognizes the tax benefit from an uncertain tax position only if it is more likely than not to be sustained upon examination based on the technical merits of the position as well as consideration of the available facts and circumstances. When uncertain tax positions exist, the Company recognizes the tax benefit of tax positions to the extent that the benefit will more likely than not be realized. As of June 30, 2024, the Company does not believe any material uncertain tax positions are present. In the event the Company determines that accrual of interest or penalties are necessary in the future, the amount will be presented as a component of income tax expense. Stock-Based Compensation For stock options issued, the Company estimates the grant date fair value of each option using the Black-Scholes option pricing model. The Black-Scholes model takes into account the expected volatility of the Company's common stock, the risk-free interest rate, the estimated life of the option, the closing market price of the Company's common stock and the exercise price. The estimates utilized in the Black-Scholes calculation involve inherent uncertainties and the application of management's judgment. In addition, the Company recognizes expense for equity award forfeitures as they occur. For restricted stock units (RSUs), the Company issues them in the form of Company common stock. The fair market value of these awards is based on the market closing price per share on the grant date. The Company recognizes the grant date fair value of the stock options and RSUs over the requisite service period, which is generally the vesting term. For awards only subject to service-based vesting conditions, the Company elected to recognize stock-based compensation expense on a straight-line basis. For awards subject to performance-based vesting conditions, the Company recognizes stock-based compensation expense using the accelerated attribution method when the achievement of the performance condition becomes probable. The expense related to the stock-based compensation is recorded within the same financial statement line item as the grantee's cash compensation. The Company's policy upon exercise of stock options and RSUs is that shares will be issued as new shares drawing on the Company's 2015 Omnibus Incentive Compensation Plan share pool that was adopted by the stockholders in November 2015. Basic and Diluted Net Loss per Common Share Basic net loss per share of common stock is computed by dividing net loss by the weighted average number of shares of common stock outstanding during the period. Diluted net loss per share of common stock includes the effect, if any, from the potential exercise or conversion of securities, such as warrants, stock options, RSUs and/or common stock pursuant to the 2023 Employee Stock Purchase Plan (the ESP), which would result in the issuance of incremental shares of common stock. As the impact of these items is anti-dilutive during periods of net loss, there was no difference between basic and diluted net loss per share of common stock for the three and six months ended June 30, 2024 and 2023. Leases The Company determines if an arrangement is a lease at contract inception. Right-of-use assets represent the Company's right to use an underlying asset for the lease term and lease liabilities represent the Company's obligation to make lease payments arising from the lease. When evaluating whether a contract contains a lease, the Company considers whether (1) the contract explicitly or implicitly identifies assets that are contractually defined and (2) the Company obtains substantially all of the economic benefits from the use of that underlying asset and directs how and for what purpose the asset is used during the term of the contract. The Company's lease agreements contain lease and non-lease components. Non-lease components primarily include payments for maintenance and utilities. The Company has applied the practical expedient to combine fixed payments for non-lease components with lease payments and account for them together as a single lease component, which increases the amount of lease assets and corresponding liabilities. Payments under the Company's lease arrangements are primarily fixed, however, variable payments are expensed as incurred and not included in the operating lease asset and liability. Lease assets and liabilities are recognized at the commencement date of the lease based upon the present value of lease payments over the lease term. When determining the lease term, the Company includes options to extend or terminate the lease when it is reasonably certain that the Company will exercise that option. The Company uses the interest rate implicit in the contract when such rate is readily determinable and uses the Company's incremental borrowing rate when the rate implicit in the contract is not readily determinable based upon the information available at the commencement date in determining the present value of the lease payments. The Company's operating leases are reflected in the

right-of-use operating asset; operating lease liability, current portion; and operating lease liability, long-term portion in the Company’s consolidated balance sheets. Operating lease expense is recognized on a straight-line basis over the lease term and included in selling, general and administrative expenses. Finance leases are included in the non-current inventory and other assets; accrued expenses and other current liabilities; and finance lease liability, long-term in the Company’s consolidated balance sheets. Assets under the finance leases are amortized on a straight-line basis over the lease term and included in selling, general and administrative expenses. Short-term leases, defined as leases that have a lease term of 12 months or less at the commencement date, and do not include an option to extend the term or purchase the underlying asset that the Company is reasonably certain to exercise, are excluded from this treatment and are recognized on a straight-line basis over the term of the lease. Recent Accounting Pronouncements In November 2023, the Financial Accounting Standards Board (‘‘FASB’’) issued Accounting Standards Update (‘‘ASU’’) 2023-07, Segment reporting, which requires disclosure of incremental segment information on an annual and interim basis. The standard is effective for years beginning after December 15, 2023 and interim periods beginning after December 15, 2024, and early adoption is permitted. The Company is currently evaluating the effect of adopting this guidance on its consolidated financial statements. In December 2023, the FASB issued ASU 2023-09, Improvements to income tax disclosures, which requires disclosure of disaggregated income taxes paid by jurisdiction, enhances disclosures in the effective tax rate reconciliation, and modifies other income tax-related disclosures. The amendments are effective for annual periods beginning after December 15, 2024. The Company is currently evaluating the effect of adopting this guidance on its consolidated financial statements. X - References No definition available. + Details Name: us-gaap_AccountingPoliciesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration X - Definition The entire disclosure for all significant accounting policies of the reporting entity. + References Reference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483426/235-10-50-1> Reference 2: <http://fasb.org/us-gaap/role/ref/legacyRef-Topic 235 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/235/tableOfContent> + Details Name: us-gaap_SignificantAccountingPoliciesTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItem Type Balance Type: na Period Type: duration XML 18 R11.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Accounts Receivable, net 6 Months Ended Jun. 30, 2024 Receivables [Abstract] A Accounts Receivable, net Note 3. Accounts receivable, net Accounts receivable, net, consisted of the following: A June 30, 2024 A December 31, 2023 A Trade receivables A \$ 133,531 A A \$ 107,320 A Less: Reserves for variable consideration A (13,189) A A (12,500) A Accounts receivable, net A \$ 120,342 A A \$ 94,820 A The Company’s customers with the largest accounts receivable balances are Cardinal Health, Inc., Cencora, Inc., and McKesson Corporation, which represented approximately 95% of total accounts receivable as of June 30, 2024. For further information, see the section titled A Accounts Receivable, net Note 2. Summary of Significant Accounting Policies. X - Definition The entire disclosure for claims held for amounts due to entity, excluding financing receivables. Examples include, but are not limited to, trade accounts receivables, notes receivables, loans receivables. Includes disclosure for allowance for credit losses. + References Reference 1: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/310-10/tableOfContent> Reference 2: <http://www.xbrl.org/2003/role/disclosureRef-Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-2> + Details Name: us-gaap_LoansNotesTradeAndOtherReceivablesDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItem Type Balance Type: na Period Type: duration X - References No definition available. + Details Name: us-gaap_ReceivablesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration XML 19 R12.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Inventory 6 Months Ended Jun. 30, 2024 Inventory Disclosure [Abstract] A Inventory Note 4. Inventory Inventory consisted of the following: A June 30, 2024 A December 31, 2023 A Raw materials A \$ 7,771 A A \$ 5,534 A Work in process A A 10,536 A A A 10,287 A Finished goods A A 8,270 A A A 9,643 A Total A \$ 26,577 A A \$ 25,464 A There were no material inventory reserves or write downs of any excess and obsolete inventory as of June 30, 2024. Non-current inventory, which consists of raw materials and work in progress inventory, is included in non-current inventory and other assets on the accompanying consolidated balance sheets. Non-current inventory is anticipated to be consumed beyond the Company’s normal operating cycle. The following table summarizes the balance sheet classification of the Company’s inventory for each of the periods indicated: A June 30, 2024 A A December 31, 2023 A Balance sheet classification A A A A Inventories, net A \$ 15,220 A A \$ 15,135 A Non-current inventory and other assets A A 11,357 A A A 10,329 A Total A \$ 26,577 A A \$ 25,464 A X - References No definition available. + Details Name: us-gaap_InventoryDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration X - Definition The entire disclosure for inventory. Includes, but is not limited to, the basis of stating inventory, the method of determining inventory cost, the classes of inventory, and the nature of the cost elements included in inventory. + References Reference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 330 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/330/tableOfContent> + Details Name: us-gaap_InventoryDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItem Type Balance Type: na Period Type: duration XML 20 R13.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Intangible Asset 6 Months Ended Jun. 30, 2024 Intangible Assets [Abstract] A Intangible Asset Note 5. Intangible Asset The following table provides the Company’s carrying amount of the intangible asset for each of the periods indicated. A A Gross carrying amount A A Accumulated amortization A A Net carrying amount A A Remaining weighted-average useful life Balance at December 31, 2023 A A A A A A A A Finite-lived intangible asset A \$ 63,800 A A \$ 10,514 A A \$ 53,286 A A 9-years Balance at June 30, 2024 A A A A A A A A Finite-lived intangible asset A \$ 63,800 A A \$ 13,693 A A \$ 50,107 A A 8-years Based on the finite-lived intangible asset recorded as of June 30, 2024, and assuming the underlying asset will not be impaired and that the Company will not change the expected life of the asset, future amortization expenses over the next five years and periods thereafter are estimated to be as follows: A A Estimated amortization expense A 2024 A \$ 3,214 A 2025 A A 6,375 A 2026 A A 6,375 A 2027 A A 6,375 A 2028 A A 6,392 A Thereafter A A 21,376 A Total A \$ 50,107 A X - Definition Intangible Assets Abstract. + References No definition available. + Details Name: axsm_IntangibleAssetsAbstract Namespace Prefix: axsm_ Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration X - Definition The entire disclosure for all or part of the information related to intangible assets. + References Reference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-4](http://www.xbrl.org/2003/role/disclosureRef-Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/350-30/tableOfContent) Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-3](http://www.xbrl.org/2003/role/disclosureRef-Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-3) Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic 985 -SubTopic 20 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/1943274/2147481283/985-20-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 985 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481283/985-20-50-2) Reference 5: <http://www.xbrl.org/2003/role/disclosureRef-Topic 985 -SubTopic 20 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/985-20/tableOfContent> + Details Name: us-gaap_IntangibleAssetsDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItem Type Balance Type: na Period Type: duration XML 21 R14.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Fair Value of Financial Instruments 6 Months Ended Jun. 30, 2024 Fair Value Disclosures [Abstract] A Fair Value of Financial Instruments Note 6. Fair Value of Financial Instruments In connection with the Acquisition, the Company pays royalty on U.S. net sales of Sunosi to Jazz. The discounted cash flow method used to value this contingent consideration includes inputs of not readily observable market data, which are Level 3 inputs. The fair value of the contingent consideration is reflected as current accrued contingent consideration of \$7.0 million and non-current contingent consideration liability of \$69.6 million in the consolidated balance sheet as of June 30, 2024. The fair value of financial instruments measured on a recurring basis is as follows: A A June 30, 2024 A A Level 1 A A Level 2 A A Level 3 A A Total A Assets: A A A A A A A A A A Cash and cash equivalents - money market funds A \$ 238,204 A A \$ A A A A \$ A A Liabilities: A A A A A A A A A A A A Contingent consideration A \$ A A A A \$ A A A A \$ 76,660 A A A A December 31, 2023 A A A A Level 1 A A Level 2 A A Level 3 A A Total A Assets: A A A A A A A A A A A A Cash and cash equivalents - money market funds A \$ 251,768 A A A A A A A A A A \$ A A A A \$ 251,768 A Liabilities: A A A A A A A A A A A A Contingent consideration A \$ A A A A \$ A A A A \$ 79,707 A A \$ 79,707 A A Contingent Consideration Liabilities The fair value of the contingent consideration liabilities is marked-to-market each reporting period and was remeasured at June 30, 2024. Changes in fair value of the contingent consideration liabilities as of June 30, 2024 are as follows: A A Contingent consideration A Balance at December 31, 2023 A \$ 79,707 A Adjustment to fair value A A 748 A Payments A A (3,795) A Balance at June 30, 2024 (Level 3) A \$ 76,660 A The recurring Level 3 fair value measurements of contingent consideration for which a liability is recorded include the following significant unobservable inputs: A A A A As of June 30, 2024 A As of December 31, 2023 A A Valuation methodology A A Significant unobservable input A A Weighted average (range, if applicable) A A Weighted average (range, if applicable) Contingent consideration A Probability weighted income approach A Discount rate A 15.9% A 13.2% A A Revenue discount rate A 16.1% - 19.1% A 16.4% - 19.4% The Company’s fair value measurement of contingent consideration liabilities has been classified as Level 3 as its valuation requires substantial judgment and estimation of factors which requires use of unobservable inputs. The fair value of contingent consideration liabilities are estimated by using the probability weighted income approach using significant assumptions including estimated future sales of Sunosi in current and future indications, timing of regulatory and commercial milestone achievements, probability of technical and regulatory success rates, and discount rates. If significant changes are made to one or more of these assumptions, the estimated fair value of contingent consideration liabilities may result in a significantly higher or lower fair value measurement. X - References No definition available. + Details Name: us-gaap_FairValueDisclosuresAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration X - Definition The entire disclosure for the fair value of financial instruments (as defined), including financial assets and financial liabilities (collectively, as defined), and the measurements of those instruments as well as disclosures related to the fair value of non-financial assets and liabilities. Such disclosures about the financial instruments, assets, and liabilities would include: (1) the fair value of the required items together with their carrying amounts (as appropriate); (2) for items for which it is not practicable to estimate fair value, disclosure would include: (a) information pertinent to estimating fair value (including, carrying amount, effective interest rate, and maturity, and (b) the reasons why it is not practicable to estimate fair value; (3) significant concentrations of credit risk including: (a) information about the activity, region, or economic characteristics identifying a concentration, (b) the maximum amount of loss the entity is exposed to based on the gross fair value of the related item, (c) policy for requiring collateral or other security and information as to accessing such collateral or security, and (d) the nature and brief description of such collateral or security; (4) quantitative information about market risks and how such risks are managed; (5) for items measured on both a recurring and nonrecurring basis information regarding the inputs used to develop the fair value measurement; and (6) for items presented in the financial statement for which fair value measurement is elected: (a) information necessary to understand the reasons for the election, (b) discussion of the effect of fair value changes on earnings, (c) a description of [similar groups] items for which the election is made and the relation thereof to the balance sheet, the aggregate carrying value of items included in the balance sheet that are not eligible for the election; (7) all other required (as defined) and desired information. + References Reference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 107 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482078/820-10-55-107> Reference 2: <http://www.xbrl.org/2003/role/exampleRef-Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 100 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482078/820-10-55-100> Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(c\)\(3\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2) Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6A -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-6A](http://www.xbrl.org/2003/role/disclosureRef-Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-6A) Reference 5: <http://www.xbrl.org/2003/role/disclosureRef-Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2E -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2E> Reference 6: [http://www.xbrl.org/2003/role/disclosureRef-Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6A -Subparagraph \(h\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-6A](http://www.xbrl.org/2003/role/disclosureRef-Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6A -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-6A) Reference 7: [http://www.xbrl.org/2003/role/disclosureRef-Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6A -Subparagraph \(f\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-6A](http://www.xbrl.org/2003/role/disclosureRef-Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6A -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-6A) Reference 8: [http://www.xbrl.org/2003/role/disclosureRef-Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6A -Subparagraph \(e\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-6A](http://www.xbrl.org/2003/role/disclosureRef-Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6A -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-6A) Reference 9: [http://www.xbrl.org/2003/role/disclosureRef-Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6A -Subparagraph \(d\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-6A](http://www.xbrl.org/2003/role/disclosureRef-Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6A -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-6A) Reference 10: [http://www.xbrl.org/2003/role/disclosureRef-Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(h\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2) Reference 11: [http://www.xbrl.org/2003/role/disclosureRef-Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(g\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2) Reference 12: [http://www.xbrl.org/2003/role/disclosureRef-Topic 940 -SubTopic 820 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478119/940-820-50-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 940 -SubTopic 820 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478119/940-820-50-1) + Details Name: us-gaap_FairValueDisclosuresTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItem Type Balance Type: na Period Type: duration XML 22 R15.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Accrued Expenses and Other Current Liabilities 6 Months Ended Jun. 30, 2024 Accrued Liabilities and Other Liabilities [Abstract] A Accrued Expenses and Other Current Liabilities Note 7. Accrued Expenses and Other Current Liabilities Accrued expenses and other current liabilities consisted of the following: A June 30, 2024 A A December 31, 2023 A Accrued research and development A \$ 13,565 A A \$ 6,503 A Accrued compensation A A 16,212 A A A 20,457 A Accrued selling, general and administrative A A 14,743 A A A 9,242 A Accrued sales discounts, rebates and allowances A A 63,530 A A A 46,713 A Accrued royalties A A 5,426 A A A 5,927 A Accrued interest A A 1,605 A A A 1,659 A Accrued taxes A A 493 A A A A A Finance lease liability, current A A 1,197 A A A A Total A \$ 116,771 A A \$ 90,501 A X - Definition The entire disclosure for accounts payable and accrued liabilities at the end of the reporting period. + References Reference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(20\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1) Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(24\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(24)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1) Reference 3: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic 720 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483384/720-30-45-1> Reference 4: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(19\)\(a\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(19)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1) + Details Name: us-gaap_AccountsPayableAndAccruedLiabilitiesDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItem Type Balance Type: na Period Type: duration X - References No definition available. + Details Name: us-gaap_AccruedLiabilitiesAndOtherLiabilitiesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration XML 23 R16.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Loan and Security Agreement 6 Months Ended Jun. 30, 2024 Debt Disclosure [Abstract] A Loan and Security Agreement Note 8. Loan and Security Agreement Hercules Capital, Inc. Fourth Amendment to the Loan Agreement On May 8, 2023, the Company entered into the Waiver and Fourth Amendment (the ‘‘Fourth Amendment’’) to its Loan and Security Agreement, dated as of September 25, 2020 (as amended by that certain First Amendment to Loan and Security Agreement, dated as of October 14, 2021, as further amended by the Second Amendment to Loan and Security Agreement, dated as of March 27, 2022, and as further amended by the Third Amendment to Loan and Security Agreement, dated as of January 9, 2023) (the ‘‘Loan Agreement’’) with Hercules Capital, Inc., a Maryland corporation (the ‘‘Hercules’’), in its capacity as administrative agent and collateral agent, and the other financial institutions or entities party thereto as lenders, with respect to the term loan thereunder (the ‘‘2020 Term Loan’’). The Fourth Amendment increased the amount of cash that could be held by Axsome Malta Ltd. (the ‘‘Axsome Malta’’) outside of the United States from \$3.0 million to \$15.0 million for a 45-day period after the closing of the Fourth Amendment and to \$10.0 million thereafter. The Fourth Amendment also waived any purported default with respect to the amount of cash held by Axsome Malta prior to the date of the Fourth Amendment. In August 2023, Hercules granted the Company a waiver to the Fourth Amendment, permitting Axsome Malta to hold up to \$12.5 million in Cash outside of the United States until December 31, 2023. Third Amendment to the Loan Agreement On January 9, 2023, the Company entered into a Third Amendment (the ‘‘Third Amendment’’) to the Loan Agreement with Hercules, in its capacity as administrative agent and collateral agent, and the other financial institutions or entities party

as lenders. The Third Amendment amended the terms of the Loan Agreement to, among other things:

- Extend the maturity date to January 1, 2029;
- Increase the aggregate principal amount under the Loan Agreement from \$300.0 million to \$350.0 million;
- Subject to the terms and conditions in the Loan Agreement, change the term loan advance amounts and dates available under the tranche 1 advance through tranche 5 advance, including increasing the tranche 1 advance from one tranche of \$95.0 million to five sub-tranches of \$95.0 million, \$55.0 million, \$30.0 million, \$35.0 million and \$35.0 million, respectively, changing the tranche 2 advance from three sub-tranches of \$35.0 million, \$35.0 million and \$30.0 million to one tranche of \$25.0 million, changing the tranche 3 advance from two sub-tranches of \$15.0 million and \$5.0 million to one tranche of \$75.0 million and removing the tranche 4 advance and tranche 5 advance entirely;
- Revise the interest rate applicable to extensions of credit under the Loan Agreement to equal (a) if the prime rate is greater than or equal to 7.00%, the greater of either (i) the prime rate plus 2.20%, and (ii) 9.95%, but in no event greater than 10.70%, and (b) if the prime rate is less than 7.00%, 9.70%;
- Increase the minimum cash requirement of the Company to \$30.0 million; and
- Require the Company to pay a facility fee equal to 0.75% of the amount of principal actually funded pursuant to the tranche 1B advance, tranche 1C advance, tranche 1D advance, tranche 1E advance, tranche 2 advance and tranche 3 advance.

As of June 30, 2024, the Company had allowed tranches 1D, 1E, and 2 which totaled \$95 million, to expire undrawn. On October 14, 2021, the Company entered into a First Amendment to the Loan and Security Agreement with Hercules. On March 27, 2022, in connection with the Acquisition (as described above), the Company entered into a Second Amendment to the Loan and Security Agreement (the "Second Amendment") with Hercules. The Second Amendment closed on May 9, 2022, concurrently with the closing of the Acquisition. As collateral for the obligations, the Company has granted to Hercules a senior security interest in all of the Company's right, title, and interest in, to and under all of the Company's property, inclusive of intellectual property, which includes one of the Company's existing license agreements (the "License Agreement") with Antecip, an entity owned by Axsome's Chief Executive Officer and Chairman of the Board, Herriot Tabuteau, M.D., subject to limited exceptions. Antecip consented to the collateral assignment of the License Agreement, among other things, under a direct agreement (the "Direct Agreement") with the Company, Antecip and Hercules. The Loan Agreement contains customary representations, warranties and covenants, including covenants by the Company limiting additional indebtedness, liens (including a negative pledge on intellectual property and other assets), guaranties, mergers and consolidations, substantial asset sales, investments and loans, certain corporate changes, transactions with affiliates and fundamental changes. At the initial closing, there were no applicable financial covenants contained in the Loan Agreement. Effective upon closing of the Third Amendment of the Loan Agreement in January 2023, the following limited financial covenants applied:

- Effective upon closing of the Third Amendment of the Loan Agreement, the Company at all times thereafter must maintain cash in an account or accounts in which Hercules has a first priority security interest, in an aggregate amount greater than or equal to \$30.0 million, plus the amount of the Company's accounts payable under U.S. GAAP not paid after the 180th day following the invoice for such account payable (such amount, the "Qualified Cash A/P Amount").
- The Company must meet, beginning June 30, 2023, any of the following conditions: (A) ensure that at all times its market capitalization exceeds \$1.5 billion, and that it maintains cash in an account which Hercules has a first priority security interest in an amount not less than 50% of the sum of the outstanding principal amount of the term loan advances plus the Qualified Cash A/P Amount, (B) ensure that at all times that it maintains cash in an account which Hercules has a first priority security interest in an amount not less than 95% of the sum of the outstanding principal amount of the term loan advances plus the Qualified Cash A/P Amount, or (C) achieve at least 60% of the net product revenue per the Board approved forecast solely from the sale of AXS-05, AXS-07, and Sunosi (which may include royalty, profit sharing, or sales-based milestone revenue recognized in accordance with GAAP, but will not include any upfront or non-sales-based milestone payments under business development or licensing transactions), measured on a trailing six-month basis as of the date of the Company's most recent quarterly financial statement, determined on a quarterly basis.

Axsome Malta, a company organized under the laws of the Republic of Malta, shall not hold cash outside of the United States in excess of \$3.0 million in the aggregate at any time. This amount, however, was increased by the Fourth Amendment to \$15.0 million for a 45-day period after the closing of the Fourth Amendment and to \$10.0 million thereafter. Furthermore, in August 2023, Hercules granted the Company a waiver to the Fourth Amendment, permitting Axsome Malta to hold up to \$12.5 million in Cash outside of the United States until December 31, 2023.

Restrictions on the Company's ability to incur additional indebtedness, pay dividends, encumber its intellectual property, or engage in certain fundamental business transactions, such as mergers or acquisitions of other businesses, with certain exceptions. The Company's obligations under the Loan Agreement are subject to acceleration upon the occurrence of specified events of default, including payment default, insolvency and a material adverse change in the Borrower's business, operations or financial or other condition. In addition, the Company is required to pay certain end of term charges, including (A) an initial end of term charge of \$4.45 million and (B) a subsequent end of term charge of (i) 1.10% of the aggregate amount of all tranche 1A advances plus (ii) 4.95% of the aggregate amount of all term loan advances (other than tranche 1A advances) funded. The end of term charges are being accreted into interest expense using the effective interest rate method over the term of the loan. If certain maturity extension conditions are satisfied, the Company must pay an extension end of term charge equal to 1.00% of the aggregate amount of all term loan advances outstanding as of the date on which the maturity extension conditions are satisfied, in addition to the end of term charges described above. The Company may, at its option prepay the term loans in full or in part, subject to a prepayment penalty equal to (i) 2.0% of the principal amount prepaid if the prepayment occurs prior to February 1, 2024, (ii) 1.5% of the principal amount prepaid if the prepayment occurs on or after February 1, 2024 but prior to February 1, 2026. The Company evaluated whether the Third Amendment entered into in January 2023 represented a debt modification or extinguishment in accordance with ASC 470-50, Debt - Modifications and Extinguishments. As the present value of the cash flows under the terms of the Third Amendment is less than 10% different from the remaining cash flows under the terms of the Second Amendment, the Third Amendment was accounted for as a debt modification. The unamortized balance of debt discount costs incurred in connection with those loans and additional debt discount costs incurred in connection with entry into the Third Amendment are being amortized through maturity in January 2028 utilizing the effective interest rate method.

Loan Interest Expense and Amortization

Long-term debt and unamortized debt discount balances are as follows:

	June 30, 2024	December 31, 2023
Total outstanding debt	\$ 180,000	\$ 180,000
Add: accreted final payment fee	\$ 3,318	\$ 2,610
Less: unamortized debt discount, long-term	(3,988)	(4,540)
Less: current portion of long-term debt	-	-
Loan payable, long-term	\$ 179,330	\$ 178,070

The book value of debt approximates its fair value given its variable interest rate. Interest expense, amortization of the final payment fee, amortization of the debt discount related to the issuance costs and warrants for the Company's debt are as follows:

	Three months ended June 30, 2024	Six months ended June 30, 2024	2024	2023	2024	2023
Interest expense	\$ 4,869	\$ 4,067	\$ 9,738	\$ 7,702	\$ 4,869	\$ 4,067
Amortization of final payment fee	\$ 360	\$ 272	\$ 4,522	\$ 281	\$ 360	\$ 272
Amortization of debt discount related to issuance costs and warrants	\$ 281	\$ 4,522	\$ 281	\$ 4,522	\$ 281	\$ 4,522
Scheduled principal payments on outstanding debt, as of June 30, 2024, are as follows:	2024	\$ 2025	\$ 2026	\$ 2027	\$ 2028	\$ 2029
Total principal payments outstanding	\$ 180,000	X	-	-	-	-

References No definition available. + Details Name: us-gaap DebtDisclosureAbstract Namespace Prefix: us-gaap Data Type: xbrl:stringItemType Balance Type: na Period Type: duration X - Definition The entire disclosure for long-term debt. + References Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef - Topic 470 - Name Accounting Standards Codification - Publisher FASB - URI https://asc.fasb.org/470/tableOfContent + Details Name: us-gaap LongTermDebtTextBlock Namespace Prefix: us-gaap Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 24 R17.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Commitments and Contingencies 6 Months Ended Jun. 30, 2024 Commitments and Contingencies Disclosure [Abstract] A Commitments and Contingencies Note 9. Commitments and Contingencies Leases Leases are accounted for under ASC Topic 842. The Company made an accounting policy election not to apply the recognition requirements to short-term leases. The Company recognizes the lease payments for short-term leases in the consolidated statements of operations on a straight-line basis over the lease term, and variable lease payments in the period in which the obligation for those payments is incurred. Therefore, the Company is not recognizing a lease liability or right-of-use asset for any lease that, at the commencement date, has a lease term of 12 months or less and does not include an option to extend the term or purchase the underlying asset that the Company is reasonably certain to exercise. The Company's lease terms may include options to extend or terminate the lease when it is reasonably certain that the Company will exercise that option. The Company has entered into a lease agreement for the Company's principal executive offices located in New York, NY. The lease does not include any restrictions or covenants that had to be accounted for under the lease guidance. In February 2023, the Company entered into a ten-year agreement to sublease office space at One World Trade Center, which began in April 2023. Based on the Company's past experience and current expectation for administrative office needs, the Company determined the lease term to be five years. As of June 30, 2024 and June 30, 2023, the remaining lease term for the Company's operating lease was 3.8 years and 4.8 years, respectively, with the discount rate unchanged at 12.0%. The interest rate implicit in lease contracts is typically not readily determinable and as such, the Company uses its incremental borrowing rate based on the information available at the lease commencement date, which represents an internally developed rate that would be incurred to borrow, on a collateralized basis, over a similar term, an amount equal to the lease payments in a similar economic environment. The Company entered into a fleet lease program beginning the first quarter of 2024. The lease agreement includes an initial 12-month noncancelable period with monthly renewal options thereafter. Lease terms range from approximately 40 to 50 months and are classified as finance leases. During the six months ended June 30, 2024, the Company recognized a right-of-use asset and lease liability, both, of \$4.6 million in connection to this lease. As of June 30, 2024, right-of-use asset and lease liability related to the finance lease were both \$4.2 million, and the weighted average remaining lease term was 3.5 years, with a weighted average discount rate of 9.6%. Lease expenses recognized were as follows:

	Three months ended June 30, 2024	Six months ended June 30, 2024	2024	2023	2024	2023
Operating lease expense	\$ 583	\$ 689	\$ 1,166	\$ 1,007	\$ 583	\$ 689
Finance lease expense	-	-	-	-	-	-
Amortization of right-of-use assets	\$ 263	\$ 4	\$ 263	\$ 4	\$ 263	\$ 4
Interest on lease liabilities	\$ 86	\$ 121	\$ 121	\$ 121	\$ 86	\$ 121
Future minimum lease payments of the Company's leases as of June 30, 2024 were as follows:	2024	\$ 2025	\$ 2026	\$ 2027	\$ 2028	\$ 2029
Operating lease	\$ 583	\$ 689	\$ 1,166	\$ 1,007	\$ 583	\$ 689
Finance lease	-	-	-	-	-	-
Total lease payments	\$ 583	\$ 689	\$ 1,166	\$ 1,007	\$ 583	\$ 689
Present value of lease liabilities	\$ 8,248	\$ 4,22				

[illegible]

The Company evaluated the Pharmedia License Agreement under ASC 606 and concluded that Pharmedia represents a customer in the transaction. The initial transaction price consisted of the non-refundable upfront payment, which was recognized as License Revenue in the first quarter of 2023 upon transfer of the license to Pharmedia, as the requirement for revenue recognition under ASC 606 were met. The remaining forms of consideration are variable because they are dependent on the achievement of sales-based or other milestones. The Company evaluated the constraint on variable consideration and concluded that the milestone payments are dependent on regulatory approvals and actions of third parties, and thus are highly susceptible to factors outside the Company's influence. Therefore, at contract inception, the milestones are not included in the transaction price as it is not probable that a significant reversal of revenue would not occur. Sales-based milestones will be recognized as revenue in the period when the related sales threshold is met. All other development or regulatory milestones will be recognized as revenue immediately in the period the underlying milestone is achieved. Any consideration related to sales-based royalties will be recognized when the related sales occur. The Company recognized royalty revenue of \$0.6 million and \$0.7 million for the three months ended June 30, 2024 and 2023, respectively, and \$1.5 million and \$1.0 million for the six months ended June 30, 2024 and 2023, respectively, related to Pharmedia's sales of Sunosi. No other development or sales-based milestones were recognized during the six months ended June 30, 2024 and 2023. Exclusive License Agreement with Pfizer In January 2020, the Company entered into an exclusive license agreement with Pfizer Inc. (the "Pfizer") for Pfizer's clinical and non-clinical data, and intellectual property for reboxetine, the active pharmaceutical ingredient in AXS-12 which the Company is developing for the treatment of narcolepsy. The agreement also provides the Company exclusive rights to develop and commercialize esreboxetine, a new late-stage product candidate referred to as AXS-14, in the U.S. for the treatment of fibromyalgia. Under the terms of the agreement, Pfizer received 82,019 shares of the Company's common stock having a stated value of \$8.0 million, based on the average closing price of the Company's common stock for the ten prior trading days of \$97.54, in consideration for the license and rights and also received an upfront cash payment of \$3.0 million. The Company determined that the fair value of each share of common stock granted to Pfizer on the closing date of January 9, 2020 was \$87.24, based on the closing price of the Company's stock on that date. As a result, the fair value of the stock issued was \$7.2 million and, therefore, the total research and development expense recognized was \$10.2 million related to the Pfizer license agreement during the year ended December 31, 2020. Pfizer can also receive up to \$323 million in regulatory and sales milestones, and tiered mid-single to low double-digit royalties on future sales related to the licensed products. Pfizer will also have a right of first negotiation on any potential future strategic transactions involving AXS-12 and AXS-14. During the three and six months ended June 30, 2024 and 2023, no milestone payments or royalties were paid to Pfizer by the Company. Exclusive License Agreements with Antecip In 2012, the Company entered into three exclusive license agreements with Antecip, an entity owned by the Company's Chief Executive Officer and Chairman of the Board, Herriot Tabuteau, M.D., in which the Company was granted exclusive licenses to develop, manufacture and commercialize Antecip's patents and applications related to the development of AXS-05 (now marketed as Auvelity) and two product candidates no longer under active development, anywhere in the world for human therapeutic, veterinary, and diagnostic use. Pursuant to the agreements, the Company is required to use commercially reasonable efforts to develop, obtain regulatory approval for and commercialize these product candidates. Under the terms of the agreements, the Company is required to pay to Antecip a royalty equal to 3.0% for AXS-05 (and 1.5% or 4.5% for the other two product candidates no longer under active development), of net sales of products containing the licensed technology by the Company, its affiliates, or permitted sublicensees. These royalty payments are subject to reduction by an amount up to 50.0% of any required payments to third parties. Unless earlier terminated by a party for cause or by the Company for convenience, the agreements shall remain in effect on a product-by-product and country-by-country basis until the later to occur of (i) the applicable product is no longer covered by a valid claim in that country or (ii) 10 years from the first commercial sale of the applicable product in that country. Upon expiration of the agreements with respect to a product in a country, the Company's license grant for that product in that country will become a fully paid-up, royalty-free, perpetual non-exclusive license. If Antecip terminates any of the agreements for cause, or if the Company exercises its right to terminate any of the agreements for convenience, the rights granted to the Company under such terminated agreement will revert to Antecip. The Company began recording royalty payments to Antecip along with the initiation of sales of Auvelity (the components of which are referred to as the "AXS-05s") in the fourth quarter of 2022. For the six months ended June 30, 2024 and 2023, the Company recorded royalty expense of \$3.6 million and \$1.3 million, respectively, for royalty due to Antecip, which is equal to 3.0% of net sales of Auvelity. This is considered to be a related party transaction. In connection with the Loan Agreement, the Company entered into the Direct Agreement with Antecip and Hercules, pursuant to which Antecip consented to the collateral assignment of the License Agreement under the Loan Agreement, among other things. X - Definition The entire disclosure for license agreements. + References No definition available. + Details Name: axsm.LicenseAgreementsDisclosureTextBlock Namespace Prefix: axsm. Data Type: dtr-types:textBlock Item Type Balance Type: na Period Type: duration X - References No definition available. + Details Name: us-gaap.ResearchAndDevelopmentAbstract Namespace Prefix: us-gaap. Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration XML 30.R23.htm IDEA: XBRL DOCUMENT v3.24.2.u1.RoyaltyAgreements 6 Months Ended Jun. 30, 2024 Research and Development [Abstract] A Royalty Agreements Note 15. Royalty Agreements On March 25, 2022, the Company entered into an Asset Purchase Agreement (the "Purchase Agreement") with Jazz, pursuant to which the Company was to acquire commercial and development rights with respect to Sunosi from Jazz in certain U.S. and ex-U.S. markets. The Acquisition occurred in two separate closings. The sale and purchase of specified initial assets contemplated by the Purchase Agreement occurred on May 9, 2022 (the "Initial Closing"), following the satisfaction or waiver of the closing conditions under the Purchase Agreement. The sale and purchase of specified ex-U.S. assets contemplated by the Purchase Agreement occurred on November 14, 2022, following the satisfaction or waiver of the closing conditions under the Purchase Agreement (the "Final Closing"). The Company accounted for the Initial Closing as a business combination using the acquisition method of accounting, and the Company accounted for the Final Closing as an asset acquisition. Pursuant to the Purchase Agreement, the Company agreed to make non-refundable, non-creditable royalty payments to Jazz equal to (A) high single-digit royalty for any current indication, or (B) mid single-digit royalty for any future indication of net sales in the U.S. Territory made during the applicable royalty term. There are no royalty payments due to Jazz for Net Sales outside of the U.S. Territory. At the Initial Closing, the Company assumed all of the commitments of Jazz to SK and Aerial. SK is the originator of Sunosi and retains rights in 12 Asian markets, including China, Korea and Japan. In 2014, Jazz acquired from Aerial worldwide rights to Sunosi excluding those Asian markets stated previously. The assumed commitments to SK and Aerial include single-digit tiered royalties based on the Company's sales of Sunosi, and additionally, the Company is committed to pay up to \$165 million based on revenue milestones and \$1 million based on development milestones. X - Definition Royalty agreements disclosure text block + References No definition available. + Details Name: axsm.RoyaltyAgreementsDisclosureTextBlock Namespace Prefix: axsm. Data Type: dtr-types:textBlock Item Type Balance Type: na Period Type: duration X - References No definition available. + Details Name: us-gaap.ResearchAndDevelopmentAbstract Namespace Prefix: us-gaap. Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration XML 31.R24.htm IDEA: XBRL DOCUMENT v3.24.2.u1.Income Taxes 6 Months Ended Jun. 30, 2024 Income Tax Disclosure [Abstract] A Income Taxes Note 16. Income Taxes The table below presents the Company's loss before income taxes and effective tax rates for all periods presented:

	Three months ended June 30, 2024	Six months ended June 30, 2024	2023	2023	Loss before income taxes	(79,345)	(67,787)	(147,702)	(76,425)	Income tax benefit (expense)	(6)	(1)	(1)
Effective tax rate	6%	6%	0.9%	6%	2.6%								

 The Company is subject to income taxes in the United States and foreign jurisdictions in which the Company does business. These foreign jurisdictions have statutory tax rates different from those in the United States. Accordingly, the Company's effective tax rates will vary depending on the relative proportion of foreign to United States income, the utilization of net operating loss and tax credit carry forwards, changes in geographic mix of income and expense, and changes in management's assessment of matters such as the ability to realize deferred tax assets and changes in tax laws. The Company regularly assesses the likelihood of adverse outcomes resulting from the examination of the Company's tax returns by the Internal Revenue Service (the "IRS") and other tax authorities to determine the adequacy of its income tax reserves and expense. Should actual events or results differ from the Company's current expectations, charges or credits to its income tax expense may become necessary. The Company did not record a tax expense for the three and six months ended June 30, 2024. The Company recorded a tax benefit of \$0.6 million for the three months ended June 30, 2023 and a Maltese tax expense of \$2.0 million for the six months ended June 30, 2023 on income earned in Malta in relation to the license revenue recognized from the Pharmedia License Agreement. The Company did not have any unrecognized tax benefits as of June 30, 2024 related to uncertain tax positions that would impact the effective income tax rate if recognized. The Company is currently under examination by the IRS for the Company's 2021 U.S. income tax return. The Company is not currently under examination at the state level. The Company's U.S. federal and state net operating losses have occurred since its inception in 2012 and as such, tax years subject to potential tax examination could apply from that date because the utilization of net operating losses from prior years opens the relevant year to audit by the IRS and/or state taxing authorities. X - References No definition available. + Details Name: us-gaap.IncomeTaxDisclosureAbstract Namespace Prefix: us-gaap. Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration X - Definition The entire disclosure for income tax. + References Reference 1:

obtaining and protecting intellectual property. Use of Estimates Use of EstimatesManagement considers many factors in developing the estimates and assumptions that are used in the preparation of these financial statements. Management must apply significant judgment in this process. In addition, other factors may affect estimates, including expected business and operational changes, sensitivity and volatility associated with the assumptions used in developing estimates, and whether historical trends are expected to be representative of future trends. The estimation process often may yield a range of potentially reasonable estimates of ultimate future outcomes, and management must select an amount that falls within that range of reasonable estimates. This process may result in actual results differing materially from those estimated amounts used in the preparation of the financial statements if these results differ from historical experience, or other assumptions do not turn out to be substantially accurate, even if such assumptions are reasonable when made. In preparing these financial statements, management used significant estimates in the following areas, among others: stock-based compensation expense; determination of fair value of warrants; accounting for research and development costs; accounting for acquisitions; impairments of goodwill and the intangible asset; determination of fair value of contingent consideration; chargebacks, cash discounts, sales rebates, returns and other adjustments; and the recoverability of the Company's net deferred tax assets and related valuation allowance. Revenue Recognition Revenue RecognitionIn accordance with Accounting Standards Codification (ASC) Topic 606, Revenue from Contracts with Customers (ASC 606) the Company recognizes revenue when the customer obtains control of a promised good or service, in an amount that reflects the consideration that the Company expects to receive in exchange for the good or service. Transfer of control is based on contractual performance obligations, which occurs upon transfer of the title along with the physical transfer of the Company's goods to the customer, as that is when the customer has obtained control of significantly all of the economic benefits and the Company obtains a right of payment.To determine revenue recognition for arrangements that the Company determines are within the scope of ASC 606, the Company performs the following five steps: (i) identify the contract(s) with a customer, (ii) identify the performance obligations in the contract, (iii) determine the transaction price, (iv) allocate the transaction price to the performance obligations in the contract, and (v) recognize revenue when (or as) the entity satisfies a performance obligation. The Company only applies the five-step model to arrangements that meet the definition of a contract under ASC 606, including when it is probable that the Company will collect the consideration it is entitled to in exchange for the goods or services it transfers to the customer. At contract inception, once the contract is determined to be within the scope of ASC 606, the Company assesses the goods or services promised within each contract and determines those that are performance obligations and assesses whether each promised good or service is distinct. The Company then recognizes as revenue the amount of the transaction price that is allocated to the respective performance obligation when (or as) the performance obligation is satisfied. For a complete discussion of accounting for product sales, see Product Sales, net (below) and Note 13. Revenues. License Agreements License AgreementsThe Company generates revenue from license or similar agreements with pharmaceutical companies for the development and commercialization of certain products. Such agreements may include the transfer of intellectual property rights in the form of licenses. Payments made by the customer may include non-refundable upfront fees, payments based upon the achievement of defined milestones and royalties on sales of products.If a license to the Company's intellectual property is determined to be distinct from the other performance obligations identified in the arrangement, the Company recognizes the transaction price allocated to the license as revenue upon transfer of control of the license. All other promised goods or services in the agreement are evaluated to determine if they are distinct. If they are not distinct, they are combined with other promised goods or services to create a bundle of promised goods or services that is distinct. Optional future services where any additional consideration paid to the Company reflects their standalone selling prices do not provide the customer with a material right, and, therefore, are not considered performance obligations. If optional future services are priced in a manner which provides the customer with a significant or incremental discount, they are material rights, and are accounted for as separate performance obligations.Contingent milestones at contract inception are estimated to the extent that it is probable that a significant revenue reversal would not occur and are included in the transaction price using the most likely amount method. Milestone payments that are not within the Company's control, such as regulatory approvals, are not considered probable of being achieved until those approvals are received, and, therefore, the variable consideration is constrained. The transaction price is then allocated to each performance obligation on a relative stand-alone selling price basis, for which the Company recognizes revenue as or when the performance obligations under the contract are satisfied. At the end of each reporting period, the Company re-evaluates the probability of achieving development or sales-based milestone payments that a significant revenue reversal would not occur and, if necessary, adjusts the estimate of the overall transaction price. Any such adjustments are recorded on a cumulative catch-up basis, which would affect license and other revenue, as well as earnings, in the period of adjustment.For arrangements that include sales-based royalties, including sales-based milestone payments, and a license of intellectual property that is deemed to be the predominant item to which the royalties relate, revenue is recognized at the later of (i) when the related sales occur, or (ii) when the performance obligation to which some or all of the royalties have been allocated has been satisfied (or partially satisfied).Product Sales, netRevenues from product sales are recorded net of reserves for variable consideration. These reserves reflect the Company's best estimate of the amount of consideration to which the Company is entitled based on the terms of the contracts. The Company sells Sunosi and Aveluity in the United States to wholesale distributors with whom the Company has entered into formal agreements (collectively, the Distributors). These Distributors subsequently resell the Company's products to retail pharmacies. The Company sells Sunosi, on a product supply basis, to Pharmanovia, and Sunosi is subsequently sold within the licensed territories. The Company does not sell products under consignment arrangements, and the collection of proceeds from product sales is not contingent upon customers' sale of the goods to third parties. See Note 13. Revenues for a further breakout of product sales, net, for the three and six months ended June 30, 2024 and 2023.Reserves for Variable ConsiderationThe Company's estimates of variable consideration and determination of whether to include estimated amounts in the transaction price are based largely on an assessment of its anticipated performance and all information (historical, current and forecasted) that is reasonably available. These reserves reflect the Company's best estimate of the amount of consideration to which the Company is entitled based on the terms of the contracts and are classified as reductions to accounts receivables, net if payable to a customer or accrued expenses and other current liabilities if payable to a third-party. The amount of variable consideration that is included in the transaction price may be constrained and is included in the net sales price only to the extent that is considered probable that a significant reversal in the amount of the cumulative revenue recognized will not occur in a future period. Actual amounts of consideration ultimately received may differ from the estimates. If actual results in the future vary from our estimates, the Company will adjust these estimates, which would affect net product revenue and earnings in the period such variances become known.The provision for rebates, discounts, and other incentives is based on expected patient usage, as well as inventory levels in the distribution channel to determine the contractual obligation to the benefit providers. Additionally, sales are generally made with a limited right of return under certain conditions. Revenues are recorded net of provisions for rebates, discounts, and other incentives and returns, which are established at the time of sale. The Company uses customer segment utilization mix data, changes to product price, government pricing calculations and prior payment history in order to estimate the variable consideration. Amounts accrued for rebates, discounts, and other incentives are adjusted when trends indicate that adjustment is appropriate and to reflect actual experience.Trade Discounts and Allowances - The Company generally provides discounts which include incentive fees that are explicitly stated in the Company's contracts and are recorded as a reduction of revenue in the period the related product revenue is recognized. In addition, the Company compensates (through trade discounts and allowances) its distributors for distribution services and data. These payments have been recorded as a reduction to product sales as well as a reduction to accounts receivables, net on the consolidated balance sheets.Product Returns - The Company generally offers a limited right of return for product that has been purchased from the Company based on the product's expiration date. The Company estimates the amount of its product sales that may be returned and records this estimate as a reduction of revenue in the period the related product sale is recognized, as well as a component of accrued expense and other current liabilities. The Company currently estimates product return liabilities using available industry data, historical product sales information, and actual returns experience.Chargebacks and Discounts - Chargebacks for fees and discounts to providers represent the estimated obligations resulting from contractual commitments to sell products at prices lower than the list prices charged to distributors. Distributors charge the Company for the difference between what they pay for the product and the ultimate selling price. These reserves are established in the same period that the related product sales are recognized, resulting in a reduction to product sales and accounts receivables, net.Rebates - Rebates apply to: Medicaid, managed care, and supplemental rebates to all applicable states as defined by the statutory government pricing calculation requirements under the Medicaid Drug Rebate Program. Tricare rebates to the TRICARE third-party administrator are based on the statutory calculation defined in the agreement with the Defense Health Agency. Part D and Commercial Managed Care rebates are paid based on the contracts with Pharmacy Benefit Managers (PBM) and Managed Care Organizations. Rebates are paid to these entities upon receipt of an invoice from the contracted entity which is based on the utilization of the product by the members of the contracted entity. Allowances for rebates also include amounts due under the Inflation Reduction Act of 2022 for Medicare Part D. The Company estimates these rebates and records such estimates in the same period the related product sales are recognized, resulting in a reduction to product sales as well as a component of accrued expenses and other current liabilities.Coverage Gap - The Medicare Part D coverage gap is a period of consumer payment for prescription medication costs which lies between the initial coverage limit and the catastrophic-coverage threshold, when the patient is a member of a Medicare Part D prescription-drug program administered by the Centers for Medicare & Medicaid Services. The Company estimates the percentage of goods sold to patients in the Coverage Gap and adjusts the transaction price for such discount at the time of sale resulting in a reduction to product sales as well as a component of accrued expenses and other current liabilities.Other Incentives - Other incentives which the Company offers include voluntary patient assistance programs, such as the co-pay assistance program, which are intended to provide financial assistance to qualified commercially-insured patients with prescription drug co-payments required by payers. The calculation of the accrual for co-pay assistance is based on an estimate of claims and the cost per claim that the Company expects to receive associated with product that has been recognized as revenue. The reserves are recorded in the same period the related revenue is recognized, resulting in a reduction to product sales as well as a component of accrued expenses and other current liabilities.The Company makes significant estimates and judgments that materially affect its recognition of net product revenue. Claims by third-party payors for rebates, chargebacks and discounts frequently are submitted to the Company significantly after the related sales, potentially resulting in adjustments in the period in which the new information becomes known. The Company will adjust its estimates based on new information, including information regarding actual rebates, chargebacks and discounts for its products, as it becomes available. Cost of Revenue Cost of RevenueThe Company's cost of revenue consists of cost of product sales and a fee sharing expense related to the upfront license revenue received. Cost of product sales primarily include direct costs (inclusive of material, shipping, handling, and manufacturing costs), overhead and product royalties. Cost of product sales excludes depreciation and amortization. In the first quarter of 2023, the Company recorded a \$5.0 million fee sharing expense related to the upfront license revenue received.The Company assumed royalty and sales-based milestone commitments of Jazz to SK Biopharmaceuticals Co. Ltd. (SK) and Aerial Biopharma, LLC (Aerial). SK is the originator of Sunosi and retains rights in 12 Asian markets, including China, Korea and Japan. In 2014, Jazz acquired from Aerial worldwide rights to Sunosi excluding those Asian markets stated previously. The assumed commitments to SK and Aerial include single-digit tiered royalties based on the Company's sales of Sunosi, and the Company is committed to pay up to \$165 million based on revenue milestones and \$1 million based on development milestones. Additionally, the Company pays a royalty to Antecip Bioventures II LLC (Antecip), an entity owned by Axsome's Chief Executive Officer and Chairman of the Board of Directors (the Board), Herriot Tabuteau, M.D., equal to 3.0% of Aveluity net sales. Foreign Currency Translation Foreign Currency TranslationRevenues and expenses denominated in foreign currency are translated into U.S. dollars at the exchange rate on the date they are incurred. Assets and liabilities of foreign operations are translated at period-end exchange rates. The effect of exchange rate fluctuations on translating foreign currency into U.S. dollars is included in the Statements of Operations and is not material to the Company's consolidated financial statements. Segment Information Segment InformationOperating segments are defined as components of an enterprise for which separate discrete information is available for evaluation by the chief operating decision maker or decision-making group in deciding how to allocate resources and in assessing performance. The Company views its operations and manages its business as one operating segment and reporting unit, which is the business of developing and delivering novel therapies for the management of CNS disorders. Cash and Cash Equivalents Cash and Cash EquivalentsThe Company considers all highly liquid investments that have maturities of three months or less when acquired to be cash equivalents. The Company's cash and cash equivalents includes holdings in checking and overnight sweep accounts. The Company's cash equivalents, which are money market funds held in a sweep account, are measured at fair value on a recurring basis. As of June 30, 2024, the balance of cash and cash equivalents was \$315.7 million, which approximates fair value and was determined based upon Level 1 inputs. The sweep account is valued using quoted market prices with no valuation adjustments applied. Accordingly, these securities are categorized as Level 1 on the fair value hierarchy. Concentration of Risk Concentration of RiskConcentration of Credit Risk - Financial instruments that potentially subject the Company to a concentration of credit risk consist of cash and cash equivalents. The Company maintains its cash deposits at financial institutions, which cash deposits exceed insured limits. At June 30, 2024, the majority of the Company's cash was held by two financial institutions and amounts on deposit were in excess of government-provided insurance limits. The Company places its cash and cash equivalents in what it believes to be high credit quality banks and money market funds and has not recognized any losses from credit risks on such accounts since inception. See Accounts Receivables, net below for further information.Concentration of Risk - Other - The Company has a limited number of contract manufacturers for its products. At times, the Company may have only one manufacturer or supplier for its products. Business Combination Business CombinationThe Company accounted for the Acquisition as a business combination using the acquisition method of accounting, which requires that all identifiable assets acquired, and liabilities assumed be recorded at their estimated fair values. The excess of the fair value of purchase consideration over the fair values of identifiable assets and liabilities is recorded as goodwill. When determining the fair values of assets acquired and liabilities assumed, management makes significant estimates and assumptions. Critical estimates in valuing the intangible asset include but are not limited to future expected cash flows from acquired patented technology. Management's estimates of fair value are based upon assumptions believed to be reasonable, but are inherently uncertain and unpredictable and, as a result, actual results may differ from estimates.As a result of the Acquisition, the Company recorded goodwill and an intangible asset.GoodwillGoodwill is deemed to have an indefinite life and therefore not amortized. The Company tests the carrying amounts of goodwill for recoverability on an annual basis or more frequently if events or changes in circumstances indicate that the asset might be impaired. When reviewing goodwill for impairment, the Company first evaluates the qualitative factors to determine whether it is more likely than not that the fair value of a reporting unit is less than its carrying amount. If the qualitative factors determine it is necessary to complete a goodwill impairment test, the fair value of the relevant reporting unit is determined and compared to its carrying value. If the fair value is greater than the carrying value, then the carrying value is deemed to be recoverable, and no further action is required. If the fair value estimate is less than the carrying value, goodwill is considered impaired for the amount by which the carrying amount exceeds the reporting unit's fair value, and a charge is reported in impairment of goodwill in the Company's consolidated statements of operations. The Company completes its annual goodwill assessment as of December 31. As of June 30, 2024, the Company has determined that it has one reporting unit. The Company has not identified any events or changes in circumstances that indicate the existence of potential impairment of goodwill during the six months ended June 30, 2024. The balance of goodwill at June 30, 2024 and December 31, 2023 remains unchanged at \$12.0 million.Intangible AssetThe Company's intangible asset is amortized using the straight-line method over its estimated period of benefit of ten years. The Company evaluates recoverability of the intangible asset periodically by considering events or changes in circumstances that may warrant revised estimates of useful lives or that indicate the asset may be impaired. The Company has not identified any events or changes in circumstances that indicate the existence of potential impairment of the intangible asset during the six months ended June 30, 2024. Contingent Consideration Contingent ConsiderationConsideration paid in a business combination may include potential future payments that are contingent upon the acquired business achieving certain milestones in the future (contingent consideration). The royalty payments due to Jazz are a high single-digit royalty on the Company's U.S. net sales of Sunosi in the current indication and a mid-single-digit royalty on the Company's U.S. net sales of Sunosi for future indications. Contingent consideration liabilities are measured at their estimated fair value as of the date of acquisition, with subsequent changes in fair value recorded in the consolidated statements of operations during such period a change is recognized. The Company estimates the fair value of the contingent consideration as of the acquisition date and reporting periods thereafter using the probability weighted income approach and makes significant assumptions, including estimated future sales of Sunosi in current and future indications, timing of regulatory and commercial milestone achievements, probability of technical and regulatory success rates, and discount rates. Contingent consideration liabilities expected to be settled within 12 months after the balance sheet date are presented in current liabilities, with the non-

current portion recorded within total liabilities in the consolidated balance sheets. Fair Value Measurements Fair Value MeasurementsFair value is defined as the exchange price that would be received for an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants at the measurement date. Assets and liabilities that are measured at fair value are reported using a three-level fair value hierarchy that prioritizes the inputs used to measure fair value. This hierarchy maximizes the use of observable inputs and minimizes the use of unobservable inputs. The three levels of inputs used to measure fair value are as follows:Level 1-Quoted prices in active markets for identical assets or liabilities that the Company has the ability to access at the measurement date.Level 2-Inputs other than quoted prices in active markets that are observable for the asset or liability, either directly or indirectly.Level 3-Unobservable inputs for which there is little or no market data, which require the reporting entity to develop its own assumptions.To the extent that valuation is based on models or inputs that are less observable or unobservable in the market, the determination of fair value requires more judgment. Accordingly, the degree of judgment exercised by the Company in determining fair value is greatest for instruments categorized in Level 3. An asset's or liability's level within the fair value hierarchy is based on the lowest level of any input that is significant to the fair value measurement.The Company's financial instruments are cash and cash equivalents, accounts receivable, accounts payable, accrued expenses and other liabilities, contingent warrant liability, current and long-term debt, and current and non-current contingent consideration. The Company's Level 1 financial instruments include cash and cash equivalents, accounts receivable, accounts payable, and accrued expenses and other liabilities. They are considered Level 1 as the carrying values reported in the accompanying consolidated financial statements approximate their respective fair values due to their short-term maturities. The carrying value of debt on the Company's balance sheet is estimated to approximate its fair value. The Company's Level 3 financial instruments include contingent warrant liability and current and non-current contingent consideration due to the significant unobservable inputs required in determining their respective fair values. The Company categorized the fair value of contingent consideration liabilities as Level 3 within the fair value hierarchy as the estimate is based on significant unobservable inputs requiring management judgment. The fair value of contingent consideration liabilities is estimated by using the probability weighted income approach using significant assumptions, including estimated future sales of Sunosi in current and future indications, timing of regulatory and commercial milestone achievements, probability of technical and regulatory success and discount rates. Contingent consideration liabilities are subject to remeasurement at each prospective balance sheet date, with any changes in the fair value recorded in the consolidated statements of operations. See Note 6. Fair Value of Financial Instruments for further detail. The Company estimated the fair value of the warrant liabilities using the Black-Scholes model based on key assumption and inputs. The Company utilizes a probability assessment to estimate the likelihood of vesting for the remaining Loan Agreement (as defined below) warrants and allocated the probability of occurrence percentage to the fair values calculated, and, therefore, is considered Level 3 within the fair value hierarchy. The Company accounts for warrants anticipated to be issued in the future under the Loan Agreement as liabilities and measures them at fair value using the Black-Scholes valuation model. The warrants are subject to remeasurement at each prospective balance sheet date, with any changes in the fair value recorded in the consolidated statements of operations. See Note 6. Fair Value of Financial Instruments for further detail. Accounts Receivable, netAccounts Receivable, netThe Company's accounts receivable, net, arise from product sales and represent amounts due from its customers. They are generally stated at the gross sales amount, less reserves resulting from trade discounts and allowances and chargebacks. Accounts receivables typically have a standard payment term of 60 days or less and do not bear interest.The Company monitors the financial performance and creditworthiness of its customers so that it can properly assess and respond to changes in the customers' credit profiles. During the first quarter of 2023, the Company began distributing products through wholesale customers. The Company estimates expected credit losses of its accounts receivable by assessing the risk of loss and available relevant information about collectability, including historical credit losses, existing contractual payment terms, actual payment patterns of its customers, individual customer circumstances, and reasonable and supportable forecast of economic conditions expected to exist throughout the contractual life of the receivable. The Company has not historically experienced significant credit losses. Based on its assessment, as of June 30, 2024, the Company has not recorded any allowances for doubtful accounts receivable. For further information about accounts receivable, see Note 3. Accounts Receivable, net. Debt Issuance Costs Debt Issuance CostsDebt issuance costs consist of costs incurred in obtaining long-term financing. These costs are classified on the consolidated balance sheet as a direct deduction from the carrying amount of the related debt liability. These expenses are deferred and amortized as part of interest expense in the consolidated statement of operations using the effective interest rate method over the term of the debt agreement. Inventory InventoryThe Company values its inventories at the lower of cost or estimated net realizable value. The remaining inventory associated with the Acquisition is stated at fair value due to purchase accounting. The Company performs an assessment of the recoverability of capitalized inventory during each reporting period, and it writes down any excess and obsolete inventories to their estimated net realizable value in the period in which the impairment is first identified. Such impairment charges, if they occur, are recorded within cost of revenue.The Company capitalizes inventory costs associated with the Company's products after regulatory approval when, based on management's judgment, future commercialization is considered probable and the future economic benefit is expected to be realized. Inventory acquired and manufactured prior to receipt of regulatory approval of a product candidate is expensed as research and development expense as incurred. Inventory that can be used in either the production of clinical or commercial product is expensed as research and development expense when selected for use in a clinical manufacturing campaign.Inventory levels are evaluated for amounts that would be sold within one year. If the level of inventory exceeds the estimated amount that would be sold beyond the next 12 months, the Company classifies the estimate of such inventory as non-current. Equipment, net Equipment consists primarily of computer equipment and is recorded at cost. Equipment is depreciated on a straight-line basis over its estimated useful life, which the Company estimates to be three years. When equipment is sold or otherwise disposed of, the cost and related accumulated depreciation are removed from the accounts and the resulting gain or loss is included in operating expenses. Research and Development Costs Research and Development CostsResearch and development costs are expensed as incurred. Research and development expenses consist primarily of employee-related expenses, including salaries, benefits, travel and stock-based compensation expense, contract services, costs incurred to third-party service providers for conducting research, preclinical and clinical studies, laboratory supplies, product license fees, consulting and other related expenses. Research, preclinical and clinical study expenses are estimated based on services performed, pursuant to contracts with third-party research and development organizations that conduct and manage research, preclinical and clinical activities on the Company's behalf, including discussions with internal management personnel and external service providers as to the progress or stage of completion of services and the contracted fees to be paid for such services. If the actual timing of the performance of services or the level of effort varies from the original estimates, accruals are adjusted accordingly. Payments associated with licensing agreements to acquire licenses to develop, use, manufacture and commercialize products that have not reached technological feasibility and do not have alternative future use are expensed as incurred. Advertising Costs Advertising CostsAdvertising costs are included in selling, general and administrative expenses and are expensed as incurred. The Company considers advertising costs as expenses related to the promotion of the Company's commercial products. For the three and six months ended June 30, 2024, advertising costs were \$30.3 million and \$54.3 million, respectively. For the three and six months ended June 30, 2023, advertising costs were \$26.7 million and \$48.1 million, respectively. Income Taxes Income TaxesIncome taxes are accounted for under the asset and liability method. Under this method, deferred tax assets and liabilities are recognized for the future tax consequences attributable to the differences between the financial statement carrying amounts of existing assets and liabilities and their respective tax bases, operating losses, and tax credit carryforwards. Deferred tax assets and liabilities are measured using enacted tax rates expected to apply to taxable income in the years in which those temporary differences are expected to be recovered or settled. The effect of a change in tax rates on deferred tax assets and liabilities is recognized in income in the period that includes the enactment date. Valuation allowances are provided if, based upon the weight of available evidence, it is more likely than not that some or all of the deferred tax assets will not be realized.The Company estimates an annual effective tax rate of 0% for the year ending December 31, 2024 and has not recorded an income tax benefit for the three and six months ended June 30, 2024 since it is projecting losses and has incurred year to date losses in all jurisdictions from which the Company does not benefit due to the full valuation allowance position against the Company's deferred tax assets.The Company recognizes the tax benefit from an uncertain tax position only if it is more likely than not to be sustained upon examination based on the technical merits of the position as well as consideration of the available facts and circumstances. When uncertain tax positions exist, the Company recognizes the tax benefit of tax positions to the extent that the benefit will more likely than not be realized. As of June 30, 2024, the Company does not believe any material uncertain tax positions are present. In the event the Company determines that accrual of interest or penalties are necessary in the future, the amount will be presented as a component of income tax expense. Stock-Based Compensation Stock-Based CompensationFor stock options issued, the Company estimates the grant date fair value of each option using the Black-Scholes option pricing model. The Black-Scholes model takes into account the expected volatility of the Company's common stock, the risk-free interest rate, the estimated life of the option, the closing market price of the Company's common stock and the exercise price. The estimates utilized in the Black-Scholes calculation involve inherent uncertainties and the application of management's judgment. In addition, the Company recognizes expense for equity award forfeitures as they occur.For restricted stock units (RSUs), the Company issues them in the form of Company common stock. The fair market value of these awards is based on the market closing price per share on the grant date. The Company recognizes the grant date fair value of the stock options and RSUs over the requisite service period, which is generally the vesting term. For awards only subject to service-based vesting conditions, the Company elected to recognize stock-based compensation expense on a straight-line basis. For awards subject to performance-based vesting conditions, the Company recognizes stock-based compensation expense using the accelerated attribution method when the achievement of the performance condition becomes probable. The expense related to the stock-based compensation is recorded within the same financial statement line item as the grantee's cash compensation.The Company's policy upon exercise of stock options and RSUs is that shares will be issued as new shares drawing on the Company's 2015 Omnibus Incentive Compensation Plan share pool that was adopted by the stockholders in November 2015. Basic and Diluted Net Loss per Common Share Basic and Diluted Net Loss per Common ShareBasic net loss per share of common stock is computed by dividing net loss by the weighted average number of shares of common stock outstanding during the period. Diluted net loss per share of common stock includes the effect, if any, from the potential exercise or conversion of securities, such as warrants, stock options, RSUs and/or common stock pursuant to the 2023 Employee Stock Purchase Plan (the ESPP), which would result in the issuance of incremental shares of common stock. As the impact of these items is anti-dilutive during periods of net loss, there was no difference between basic and diluted net loss per share of common stock for the three and six months ended June 30, 2024 and 2023. Leases LeasesThe Company determines if an arrangement is a lease at contract inception. Right-of-use assets represent the Company's right to use an underlying asset for the lease term and lease liabilities represent the Company's obligation to make lease payments arising from the lease. When evaluating whether a contract contains a lease, the Company considers whether (1) the contract explicitly or implicitly identifies assets that are contractually defined and (2) the Company obtains substantially all of the economic benefits from the use of that underlying asset and directs how and for what purpose the asset is used during the term of the contract.The Company's lease agreements contain lease and non-lease components. Non-lease components primarily include payments for maintenance and utilities. The Company has applied the practical expedient to combine fixed payments for non-lease components with lease payments and account for them together as a single lease component, which increases the amount of lease assets and corresponding liabilities. Payments under the Company's lease arrangements are primarily fixed, however, variable payments are expensed as incurred and not included in the operating lease asset and liability. Lease assets and liabilities are recognized at the commencement date of the lease based upon the present value of lease payments over the lease term. When determining the lease term, the Company includes options to extend or terminate the lease when it is reasonably certain that the Company will exercise that option. The Company uses the interest rate implicit in the contract when such rate is readily determinable and uses the Company's incremental borrowing rate when the rate implicit in the contract is not readily determinable based upon the information available at the commencement date in determining the present value of the lease payments.The Company's operating leases are reflected in the right-of-use operating asset; operating lease liability, current portion; and operating lease liability, long-term portion in the Company's consolidated balance sheets. Operating lease expense is recognized on a straight-line basis over the lease term and included in selling, general and administrative expenses. Finance leases are included in the non-current inventory and other assets; accrued expenses and other current liabilities; and finance lease liability, long-term in the Company's consolidated balance sheets. Assets under the finance leases are amortized on a straight-line basis over the lease term and included in selling, general and administrative expenses. Short-term leases, defined as leases that have a lease term of 12 months or less at the commencement date, and do not include an option to extend the term or purchase the underlying asset that the Company is reasonably certain to exercise, are excluded from this treatment and are recognized on a straight-line basis over the term of the lease. Recent Accounting Pronouncements Recent Accounting PronouncementsIn November 2023, the Financial Accounting Standards Board (FASB) issued Accounting Standards Update (ASU) 2023-07, Segment reporting, which requires disclosure of incremental segment information on an annual and interim basis. The standard is effective for years beginning after December 15, 2023 and interim periods beginning after December 15, 2024, and early adoption is permitted. The Company is currently evaluating the effect of adopting this guidance on its consolidated financial statements.In December 2023, the FASB issued ASU 2023-09, Improvements to income tax disclosures, which requires disclosure of disaggregated income taxes paid by jurisdiction, enhances disclosures in the effective tax rate reconciliation, and modifies other income tax-related disclosures. The amendments are effective for annual periods beginning after December 15, 2024. The Company is currently evaluating the effect of adopting this guidance on its consolidated financial statements. X - DefinitionLicense Agreements. + ReferencesNo definition available. + Details Name: axsm_LicenseAgreementsPolicyTextBlock Namespace Prefix: axsm_Data Type: dtr-types:textBlockItem Type Balance Type: na Period Type: duration X - DefinitionDisclosure of accounting policy for significant risks and uncertainties. + ReferencesNo definition available. + Details Name: axsm_SignificantRisksAndUncertaintiesPolicyPolicyTextBlock Namespace Prefix: axsm_Data Type: dtr-types:textBlockItem Type Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_AccountingPoliciesAbstract Namespace Prefix: us-gaap_Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration X - DefinitionDisclosure of accounting policy for advertising cost. + ReferencesReference 1:

Balance Type: na Period Type: duration X - DefinitionDisclosure of accounting policy for commitments and contingencies, which may include policies for recognizing and measuring loss and gain contingencies. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 954 -SubTopic 450 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/214747850/954-450-50-1>Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification -Topic 942 -SubTopic 825 -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/214747898/942-825-50-1](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification -Topic 460 -SubTopic 10 -Section 50 -Paragraph 8 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482425/460-10-50-8 + Details Name: us-gaap-CommitmentsAndContingenciesPolicyTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItem Type Balance Type: na Period Type: duration X - DefinitionDisclosure of accounting policy for credit risk. + ReferencesReference 1: <a href=)Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph \(d\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification -Section 50 -Paragraph 1 -SubTopic 10 -Topic 470 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481544/470-10-50-1 + Details Name: us-gaap-DebtPolicyTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItem Type Balance Type: na Period Type: duration X - DefinitionDisclosure of accounting policy for computing basic and diluted earnings or loss per share for each class of common stock and participating security. Addresses all significant policy factors, including any antidilutive items that have been excluded from the computation and takes into account stock dividends, splits and reverse splits that occur after the balance sheet date of the latest reporting period but before the issuance of the financial statements. + ReferencesReference 1: <a href=)Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification -Topic 260 -SubTopic 10 -Section 50 -Paragraph 1 -Subparagraph \(c\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification -Topic 260 -SubTopic 10 -Section 50 -Paragraph 1 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1)Reference 3: <http://www.xbrl.org/2003/role/disclosureRef-Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 20 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-20>Reference 2: <http://www.xbrl.org/2003/role/disclosureRef-Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 19 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-19>Reference 3: <http://www.xbrl.org/2003/role/disclosureRef-Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482525/740-10-45-25>Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479886/946-10-50-3](http://www.xbrl.org/2003/role/disclosureRef-Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479886/946-10-50-3)Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 17 -Subparagraph \(b\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-17](http://www.xbrl.org/2003/role/disclosureRef-Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 17 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-17)Reference 6: <http://www.xbrl.org/2003/role/disclosureRef-Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-9>Reference 7: <http://www.xbrl.org/2003/role/disclosureRef-Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482525/740-10-45-28>Reference 8: [http://www.xbrl.org/2003/role/disclosureRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-50-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-1 + Details Name: us-gaap-IncomeTaxPolicyTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItem Type Balance Type: na Period Type: duration X - DefinitionDisclosure of inventory accounting policy for inventory classes, including, but not limited to, basis for determining inventory amounts, methods by which amounts are added and removed from inventory classes, loss recognition on impairment of inventories, and situations in which inventories are stated above cost. + ReferencesReference 1: <a href=)Reference 2: <http://www.xbrl.org/2003/role/disclosureRef-Topic 330 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483080/330-10-50-1>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 210 -SubTopic](http://www.xbrl.org/2003/role/disclosureRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483489/210-10-50-1)

SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 15 -Subparagraph (d) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147481962/310-10-50-15>Reference 6: [http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 275 -SubTopic 10 -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482861/275-10-50-9](http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11B -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481962/310-10-50-11B + Details Name: us-gaap TradeAndOtherAccountsReceivablePolicy Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionDisclosure of accounting policy for the use of estimates in the preparation of financial statements in conformity with generally accepted accounting principles. + ReferencesReference 1: <a href=)Reference 2: <http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 275 -SubTopic 10 -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482861/275-10-50-4>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph \(b\) -SubTopic 10 -Topic 275 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482861/275-10-50-1](http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b) -SubTopic 10 -Topic 275 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482861/275-10-50-1)Reference 4: [http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph \(c\) -SubTopic 10 -Topic 275 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482861/275-10-50-1](http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (c) -SubTopic 10 -Topic 275 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482861/275-10-50-1)Reference 5: <http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 50 -Paragraph 11 -SubTopic 10 -Topic 275 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482861/275-10-50-11>Reference 6: <http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 50 -Paragraph 12 -SubTopic 10 -Topic 275 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482861/275-10-50-12>Reference 7: [http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(4\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 275 -SubTopic 10 -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482861/275-10-50-8 + Details Name: us-gaap UseOfEstimates Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 34 R27.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Accounts Receivable, net (Tables) 6 Months Ended Jun. 30, 2024 Receivables [Abstract] A Schedule of Accounts Receivable, Net Accounts receivable, net, consisted of the following: â€ June 30, 2024 A A December 31, 2023 A Total receivables A $ 133,531 A A $ 107,320 A Less: Reserves for variable consideration A A (13,189) A A (12,500) Accounts receivable, net A $ 120,342 A A $ 94,820 A X - ReferencesNo definition available. + Details Name: us-gaap ReceivablesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration X - DefinitionTabular disclosure of the various types of trade accounts and notes receivable and for each the gross carrying value, allowance, and net carrying value as of the balance sheet date. Presentation is categorized by current, noncurrent and unclassified receivables. + ReferencesReference 1: <a href=)Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(6\)\(a\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(3)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap ScheduleOfAccountsNotesLoansAndFinancingReceivableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItem Type Balance Type: na Period Type: duration XML 35 R28.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Inventory (Tables) 6 Months Ended Jun. 30, 2024 Inventory Disclosure [Abstract] A Schedule of Inventory Inventory consisted of the following: â€ June 30, 2024 A A December 31, 2023 A Raw materials A $ 7,771 A A $ 5,534 A Work in process A A 10,536 A A 10,287 A Finished goods A A 8,270 A A 9,643 A Total A $ 26,577 A A $ 25,464 A Summary of Balance Sheet Classification of Inventory The following table summarizes the balance sheet classification of the Company's inventory for each of the periods indicated: â€ June 30, 2024 A A December 31, 2023 A Balance sheet classification A A A A A Inventories, net A $ 15,220 A A $ 15,135 A Non-current inventory and other assets A A 11,357 A A 10,329 A Total A $ 26,577 A A $ 25,464 A X - ReferencesNo definition available. + Details Name: us-gaap InventoryDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration X - DefinitionTabular disclosure of the carrying amount as of the balance sheet date of merchandise, goods, commodities, or supplies held for future sale or to be used in manufacturing, servicing or production process. + ReferencesReference 1: <a href=)Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(6\)\(b\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(6)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1)Reference 3: [http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(6\)\(c\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(6)(c)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1)Reference 4: [http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482640/350-30-55-40](http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 210 -SubTopic 10 -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483489/210-10-50-1 + Details Name: us-gaap ScheduleOfInventoryCurrentTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItem Type Balance Type: na Period Type: duration X - DefinitionTabular disclosure of inventories not expected to be converted to cash, sold or exchanged within the normal operating cycle including inventory costs relating to long-term contracts or programs. + ReferencesNo definition available. + Details Name: us-gaap ScheduleOfInventoryNoncurrentTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItem Type Balance Type: na Period Type: duration XML 36 R29.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Intangible Asset (Tables) 6 Months Ended Jun. 30, 2024 Intangible Assets [Abstract] A Schedule of Carrying Amount of Intangible Asset The following table provides the Company's carrying amount of the intangible asset for each of the periods indicated. A A Gross carrying amount A A Accumulated amortization A A Net carrying amount A A Remaining weighted-average useful life Balance at December 31, 2023 A A A A A A A A A Finite-lived intangible asset A $ 63,800 A A $ 10,514 A A $ 53,286 A A 9-years Balance at June 30, 2024 A A A A A A A A A Finite-lived intangible asset A $ 63,800 A A $ 13,693 A A $ 50,107 A A 8-years Schedule of Finite Lived Intangible Assets Future Amortization Expenses Based on the finite-lived intangible asset recorded as of June 30, 2024, and assuming the underlying asset will not be impaired and that the Company will not change the expected life of the asset, future amortization expenses over the next five years and periods thereafter are estimated to be as follows: A A Estimated amortization expense A 2024 A $ 3,214 A 2025 A 6,375 A 2026 A 6,375 A 2027 A 6,375 A 2028 A 6,392 A Thereafter A 21,376 A Total A $ 50,107 A X - DefinitionIntangible Assets Abstract. + ReferencesNo definition available. + Details Name: axism IntangibleAssetsAbstract Namespace Prefix: axism_ Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration X - DefinitionTabular disclosure of assets, excluding financial assets and goodwill, lacking physical substance with a finite life, by either major class or business segment. + ReferencesReference 1: <a href=)Reference 2: [http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482640/350-30-55-40](http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2 + Details Name: us-gaap ScheduleOfFiniteLivedIntangibleAssetsTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItem Type Balance Type: na Period Type: duration X - DefinitionTabular disclosure of the amount of amortization expense expected to be recorded in succeeding fiscal years for finite-lived intangible assets. + ReferencesReference 1: <a href=)Reference 2: [http://www.xbrl.org/2003/role/exampleRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 103 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482078/820-10-55-103](http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2 + Details Name: us-gaap ScheduleOfFiniteLivedIntangibleAssetsFutureAmortizationExpenseTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItem Type Balance Type: na Period Type: duration XML 37 R30.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Fair Value of Financial Instruments (Tables) 6 Months Ended Jun. 30, 2024 Fair Value Disclosures [Abstract] A Schedule of fair value of financial instruments measured on a recurring basis The fair value of financial instruments measured on a recurring basis is as follows: A A June 30, 2024 A A A Level 1 A A Level 2 A A Level 3 A A Total A Assets: A A A A A A A A A Cash and cash equivalents - money market funds A $ 238,204 A A $ â€ A A $ â€ A A $ 238,204 A Liabilities: A A A A A A A A A Contingent consideration A $ â€ A A $ â€ A A $ 76,660 A A A December 31, 2023 A A A Level 1 A A Level 2 A A Level 3 A A Total A Assets: A A A A A A A A A Cash and cash equivalents - money market funds A $ 251,768 A A $ â€ A A $ â€ A A $ 251,768 A Liabilities: A A A A A A A A A Contingent consideration A $ â€ A A $ â€ A A $ 79,707 A A A A A A A A A Schedule of changes in fair value of contingent consideration liabilities The fair value of the contingent consideration liabilities is marked-to-market each reporting period and was remeasured at June 30, 2024. Changes in fair value of the contingent consideration liabilities as of June 30, 2024 are as follows: A A Contingent consideration A Balance at December 31, 2023 A $ 79,707 A Adjustment to fair value A A 748 A Payments A A (3,795) A Balance at June 30, 2024 (Level 3) A $ 76,660 A Schedule of fair value measurements of contingent consideration recurring include significant unobservable inputs The recurring Level 3 fair value measurements of contingent consideration for which a liability is recorded include the following significant unobservable inputs: â€ â€ A A A As of June 30, 2024 A As of December 31, 2023 â€ â€ â€ Valuation methodology â€ Significant unobservable input â€ Weighted average (range, if applicable) â€ Weighted average (range, if applicable) Contingent consideration A Probability weighted income approach A Discount rate A 15.9% A 13.2% A A A Revenue discount rate A 16.1% - 19.1% A 16.4% - 19.4% X - DefinitionTabular disclosure of input and valuation technique used to measure fair value and change in valuation approach and technique for each separate class of asset and liability measured on recurring and nonrecurring basis. + ReferencesReference 1: <a href=)Reference 2: [http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(bbb\)\(2\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2](http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (bbb)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2)Reference 3: [http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph \(b\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-3](http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (bbb)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2 + Details Name: us-gaap FairValueAssetsAndLiabilitiesMeasuredOnRecurringAndNonrecurringBasisValuationTechniquesTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItem Type Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap FairValueDisclosuresAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration X - DefinitionTabular disclosure of the fair value measurement of liabilities using significant unobservable inputs (Level 3), a reconciliation of the beginning and ending balances, separately presenting changes attributable to the following: (1) total gains or losses for the period (realized and unrealized), segregating those gains or losses included in earnings (or changes in net assets), and gains or losses recognized in other comprehensive income (loss) and a description of where those gains or losses included in earnings (or changes in net assets) are reported in the statement of income (or activities); (2) purchases, sales, issues, and settlements (each type disclosed separately); and (3) transfers in and transfers out of Level 3 (for example, transfers due to changes in the observability of significant inputs) by class of liability. + ReferencesReference 1: <a href=)Reference 2: [http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(c\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2](http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2)Reference 3: [http://www.xbrl.org/2009/role/commonPracticeRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(b\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2](http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2 + Details Name: us-gaap FairValueLiabilitiesMeasuredOnRecurringBasisUnobservableInputReconciliationTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItem Type Balance Type: na Period Type: duration X - DefinitionTabular disclosure of assets and liabilities, including [financial] instruments measured at fair value that are classified in stockholders' equity, if any, that are measured at fair value on a recurring basis. The disclosures contemplated herein include the fair value measurements at the reporting date by the level within the fair value hierarchy in which the fair value measurements in their entirety fall, segregating fair value measurements using quoted prices in active markets for identical assets (Level 1), significant other observable inputs (Level 2), and significant unobservable inputs (Level 3). + ReferencesReference 1: <a href=)Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(22\)\) -SubTopic 10 -Topic 210 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://www.xbrl.org/2009/role/commonPracticeRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2 + Details Name: us-gaap ScheduleOffairValueAssetsAndLiabilitiesMeasuredOnRecurringBasisTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItem Type Balance Type: na Period Type: duration XML 38 R31.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Accrued Expenses and Other Current Liabilities (Tables) 6 Months Ended Jun. 30, 2024 Accrued Liabilities and Other Liabilities [Abstract] A Schedule of Accrued Expenses and Other Current Liabilities Accrued expenses and other current liabilities consisted of the following: â€ June 30, 2024 A A December 31, 2023 A Accrued research and development A $ 13,565 A A $ 6,503 A Accrued compensation A 16,212 A A 20,457 A Accrued selling, general and administrative A 14,743 A A 9,242 A Accrued sales discounts, rebates and allowances A 63,530 A A 46,713 A Accrued royalties A 5,426 A A 5,927 A Accrued interest A 1,605 A A 1,659 A Accrued taxes A 493 A A â€ A Finance lease liability, current A 1,197 A A â€ A Total A $ 116,771 A A $ 90,501 A X - ReferencesNo definition available. + Details Name: us-gaap AccruedLiabilitiesAndOtherLiabilitiesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration X - DefinitionTabular disclosure of the components of accrued liabilities. + ReferencesNo definition available. + Details Name: us-gaap ScheduleOfAccruedLiabilitiesTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItem Type Balance Type: na Period Type: duration XML 39 R32.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Loan and Security Agreement (Tables) 6 Months Ended Jun. 30, 2024 Debt Disclosure [Abstract] A Schedule of Interest Expense and Amortization of Final Payment Fee, Amortization of Debt Discount Related to Issuance Costs and Warrants Interest expense, amortization of the final payment fee, amortization of the debt discount related to the issuance costs and warrants for the Companyâ€™s debt are as follows: A A Three months ended June 30, A A Six months ended June 30, A A 2024 A A 2023 A A 2024 A A 2023 A Interest expense A $ 4,869 A A $ 4,067 A A $ 9,738 A A $ 7,702 A Amortization of final payment fee A 360 A A 272 A A 709 A A 522 A Amortization of debt discount related issuance costs and warrants A 281 A A 637 A A 551 A A 971 A A Schedule of Outstanding Debt and Unamortized Debt Discount Balances Long-term debt and unamortized debt discount balances are as follows: â€ June 30, 2024 A A December 31, 2023 A Total outstanding debt A $ 180,000 A A $ 180,000 A Add: accreted final payment fee A 3,318 A A 2,610 A Less: unamortized debt discount, long-term A A (3,988) A A (4,540) Less: current portion of long-term debt A A â€ A A A â€ A Loan payable, long-term A $ 179,330 A A $ 178,070 A The book value of debt approximates its fair value given its variable interest rate. Schedule of Principal Payments Scheduled principal payments on outstanding debt, as of June 30, 2024, are as follows: 2024 A $ â€ A 2025 A â€ A 2026 A â€ A 2027 A â€ A 2028 A 180,000 A Thereafter A â€ A Total principal payments outstanding A $ 180,000 A X - DefinitionSchedule of interest expense and amortization of final payment fee, amortization of debt discount related to issuance costs and warrants. + ReferencesNo definition available. + Details Name: axism ScheduleOfInterestExpenseAndAmortizationOfFinalPaymentFeeAmortizationOfDebtDiscountRelatedToIssuanceCostsAndWarrantsTableTextBlock Namespace Prefix: axism_ Data Type: dtr-types:textBlockItem Type Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap DebtDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration X - DefinitionTabular disclosure of long-debt instruments or arrangements, including identification, terms, features, collateral requirements and other information necessary to a fair presentation. These are debt arrangements that originally required repayment more than twelve months after issuance or greater than the normal operating cycle of the entity, if longer. + ReferencesReference 1: <a href=)Reference 2: <http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69B -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69B>Reference 3: <http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69E -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69E>Reference 4: [http://www.xbrl.org/2009/role/commonPracticeRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph \(SX 210.12-04\(a\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-3](http://www.xbrl.org/2009/role/commonPracticeRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.12-04(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-3)Reference 5:

https://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-2Reference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 505 -SubTopic 10 -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-3Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 942 -SubTopic 470 -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147477734/942-470-50-3Reference 8: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 505 -SubTopic 10 -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-8Reference 9: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-6Reference 10: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-7 + Details Name: us-gaap_ScheduleOfDebtInstrumentsTextBlock Namespace Prefix: us-gaap_Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of maturity and sinking fund requirement for long-term debt. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -SubTopic 10 -Topic 470 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481544/470-10-50-1 + Details Name: us-gaap_ScheduleOfMaturitiesOfLongTermDebtTableTextBlock Namespace Prefix: us-gaap_Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 40 R33.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Commitments and Contingencies (Tables) 6 Months Ended Jun. 30, 2024 Commitments and Contingencies Disclosure [Abstract] A Schedule of Lease Expense Lease expenses recognized were as follows: A A Three months ended June 30, A A Six months ended June 30, A A 2024 A A 2023 A A 2024 A A 2023 A A Operating lease expense A \$ 583 A A \$ 689 A A \$ 1,166 A A \$ 1,007 A Finance lease expense A A A A A A A A Amortization of right-of-use assets A A 263 A A A A A A A A 373 A A A A A A Interest on lease liabilities A A 86 A A A A A A A A 121 A A A A A A Schedule of Future Minimum Lease Payments of Leases Future minimum lease payments of the Companyâ€™s leases as of June 30, 2024 were as follows: A A Operating lease A A Finance lease A A 2024 A A \$ 668 A A \$ 783 A 2025 A A 1,976 A A A 1,496 A 2026 A A 2,521 A A A 1,407 A 2027 A A 2,521 A A A 952 A 2028 A A 3,204 A A A 280 A Thereafter A A A A A A A A Total lease payments A A 10,890 A A A 4,918 A Less imputed interest A A (2,642) A A (696) Present value of lease liabilities A \$ 8,248 A A \$ 4,222 A X - DefinitionSchedule of future minimum lease payments. + ReferencesNo definition available. + Details Name: axism_ScheduleOfFutureMinimumLeasePaymentsTableTextBlock Namespace Prefix: axsm_Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_CommitmentsAndContingenciesDisclosureAbstract Namespace Prefix: us-gaap_Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of lessee's lease cost. Includes, but is not limited to, interest expense for finance lease, amortization of right-of-use asset for finance lease, operating lease cost, short-term lease cost, variable lease cost and sublease income. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-4 + Details Name: us-gaap_LeaseCostTableTextBlock Namespace Prefix: us-gaap_Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 41 R34.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Stockholders' Equity (Tables) 6 Months Ended Jun. 30, 2024 Equity [Abstract] A Summary of Stock Option Activity The following table sets forth stock option activity as of June 30, 2024: A A A A Number of shares A A A A A A A A Weighted average exercise price A A A A Weighted average contractual term A A A A A A A A Aggregate intrinsic value A A A A Outstanding at December 31, 2023 A A 8,462,294 A A A 41,48 A A A A A A A A Granted A A 1,047,180 A A A 83,23 A A A A A A A A Exercised A A (193,125) A A 32,59 A A A A A A A A Forfeited/Canceled A A (377,542) A A 59,88 A A A A A A A A Outstanding at June 30, 2024 A A 8,938,807 A A A 45,79 A A A 6.8 A A A \$ 314,480 A Vested and expected to vest at June 30, 2024 A A 8,938,807 A A A 45,79 A A A 6.8 A A A \$ 314,480 A Exercisable at June 30, 2024 A A 5,066,333 A A A 32,08 A A A 5.3 A A A \$ 245,888 A Schedule of RSU Activity The following table sets forth the RSU activity for the six months ended June 30, 2024: A A A A Number of shares A A A A Weighted average grant date fair value A A A A Outstanding at December 31, 2023 A A 804,150 A A A 41,36 A A A A Granted A A 397,237 A A A 75,23 A A A A Vested A A (226,323) A A 37,11 A A Forfeited A A (82,009) A A 49,83 A A Outstanding at June 30, 2024 A A 893,055 A A A \$ 56.74 A A A A Schedule of Stock-Based Compensation Expense Recognized Stock-based compensation expense recognized was as follows: A A Three months ended June 30, A A Six months ended June 30, A A A A 2024 A A 2023 A A 2024 A A 2023 A A Research and development A \$ 5,072 A A \$ 3,238 A A \$ 9,640 A A \$ 5,652 A Selling, general and administrative A 16,310 A A A 12,684 A A A 31,932 A A A 23,213 A Total A \$ 21,382 A A \$ 15,922 A A A 41,572 A A A \$ 28,865 A Schedule of Warrant Activity The following table summarizes warrant activity for the six months ended June 30, 2024: A A Warrants A A Weighted average exercise price A A Outstanding at December 31, 2023 A A 79,220 A A \$ 56.80 A Issued A A A A A A A A Exercised A A A A A A A A Outstanding at June 30, 2024 A A 79,220 A A A \$ 56.80 A X - ReferencesNo definition available. + Details Name: us-gaap_EquityAbstract Namespace Prefix: us-gaap_Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of allocation of amount expensed and capitalized for award under share-based payment arrangement to statement of income or comprehensive income and statement of financial position. Includes, but is not limited to, corresponding line item in financial statement. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 718 -SubTopic 10 -Section 50 -Paragraph 2 -Subparagraph (h)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ScheduleOfEmployeeServiceShareBasedCompensationAllocationOfRecognizedPeriodCostsTextBlock Namespace Prefix: us-gaap_Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure for stock option plans. Includes, but is not limited to, outstanding awards at beginning and end of year, grants, exercises, forfeitures, and weighted-average grant date fair value. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (d) -SubTopic 10 -Topic 718 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (e) -SubTopic 10 -Topic 718 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ScheduleOfShareBasedCompensationStockOptionsActivityTableTextBlock Namespace Prefix: us-gaap_Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionDisclosure of the number and weighted-average grant date fair value for restricted stock and restricted stock units that were outstanding at the beginning and end of the year, and the number of restricted stock and restricted stock units that were granted, vested, or forfeited during the year. + ReferencesNo definition available. + Details Name: us-gaap_ScheduleOfShareBasedCompensationRestrictedStockAndRestrictedStockUnitsActivityTableTextBlock Namespace Prefix: us-gaap_Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of warrants or rights issued. Warrants and rights outstanding are derivative securities that give the holder the right to purchase securities (usually equity) from the issuer at a specific price within a certain time frame. Warrants are often included in a new debt issue to entice investors by a higher return potential. The main difference between warrants and call options is that warrants are issued and guaranteed by the company, whereas options are exchange instruments and are not issued by the company. Also, the lifetime of a warrant is often measured in years, while the lifetime of a typical option is measured in months. Disclose the title of issue of securities called for by warrants and rights outstanding, the aggregate amount of securities called for by warrants and rights outstanding, the date from which the warrants or rights are exercisable, and the price at which the warrant or right is exercisable. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 718 -SubTopic 10 -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-1 + Details Name: us-gaap_ScheduleOfStockholdersEquityNoteWarrantsOrRightsTextBlock Namespace Prefix: us-gaap_Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 42 R35.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Warrants (Tables) 6 Months Ended Jun. 30, 2024 Warrants and Rights Note Disclosure [Abstract] A Schedule of Warrant Activity The following table summarizes warrant activity for the six months ended June 30, 2024: A A Warrants A A Weighted average exercise price A A Outstanding at December 31, 2023 A A 79,220 A A \$ 56.80 A Issued A A A A A A A A Exercised A A A A A A A A Outstanding at June 30, 2024 A A 79,220 A A A \$ 56.80 A X - DefinitionTabular disclosure of warrants or rights issued. Warrants and rights outstanding are derivative securities that give the holder the right to purchase securities (usually equity) from the issuer at a specific price within a certain time frame. Warrants are often included in a new debt issue to entice investors by a higher return potential. The main difference between warrants and call options is that warrants are issued and guaranteed by the company, whereas options are exchange instruments and are not issued by the company. Also, the lifetime of a warrant is often measured in years, while the lifetime of a typical option is measured in months. Disclose the title of issue of securities called for by warrants and rights outstanding, the aggregate amount of securities called for by warrants and rights outstanding, the date from which the warrants or rights are exercisable, and the price at which the warrant or right is exercisable. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 718 -SubTopic 10 -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-1 + Details Name: us-gaap_ScheduleOfStockholdersEquityNoteWarrantsOrRightsTextBlock Namespace Prefix: us-gaap_Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_WarrantsAndRightsNoteDisclosureAbstract Namespace Prefix: us-gaap_Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 43 R36.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Net Loss per Common Share (Tables) 6 Months Ended Jun. 30, 2024 Earnings Per Share [Abstract] A Computation of Basic and Diluted Net Loss per Common Share The following table sets forth the computation of basic and diluted net loss per common share

Paragraph 2 - Subparagraph (g)(2)(i) - Publisher FASB -URI https://asc.fasb.org/1943274/2147480016/944-40-65-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (h)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480016/944-40-65-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480990/946-20-50-11Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(23)(a)(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(17)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 8: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1 + Details Name: us-gaap_RetainedEarningsAccumulatedDeficit Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant XML 47 R40.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Summary of Significant Accounting Policies - Additional Information (Details) 3 Months Ended 6 Months Ended 12 Months Ended Mar. 25, 2022 USD (\$) Market Jun. 30, 2024 USD (\$) Institution Jun. 30, 2023 USD (\$) Mar. 31, 2023 USD (\$) Jun. 30, 2024 USD (\$) ReportingUnits Market Segment Institution Jun. 30, 2023 USD (\$) Dec. 31, 2024 Dec. 31, 2023 USD (\$) Segment and Geographic Information A A A A A A A A Number of operating segments | Segment A A A A A A A A Cash Equivalents A A A A A A A A Cash Equivalents A \$ 315,700,000 A \$ 315,700,000 A A A A A A A A Concentration of Credit Risk A A A A A A A A Number of financial institutions that hold the Company's cash | Institution A 2 A 2 A A Business Combination A A A A A A A A Intangible assets, Estimated period of benefit A 8 years A 8 years A 9 years Number of reporting units | ReportingUnits A A A A 1 A A A Goodwill Remain Unchanged A \$ 12,042,000 A A \$ 12,042,000 A A \$ 12,042,000 Accounts Receivable, net A A A A A A A A Accounts receivable, Allowance for credit loss A 0 A A \$ 0 A A A Equipment, net A A A A A A A A Estimated useful life A 3 years A 3 years A A A A Cost of Product Sales A A A A A A A A Payment terms A A A A 60 days or less A A A A Advertising costs A \$ 30,300,000 A \$ 26,700,000 A A \$ 54,300,000 A \$ 48,100,000 A A Income Taxes A A A A A A A A Effective tax rate A 0.00% (0.90%) A 0.00% 2.60% A A Income tax expense A \$ 0 (617,000) A \$ 0 \$ 1,963,000 A A A A Scenario Forecast A A A A A A A A Income Taxes A A A A A A A A Effective tax rate A A A A A A 0.00% A License Fee A A A A A A A A Cost of Product Sales A A A A A A A A A A Cost of product sales A A \$ 5,000,000 A A A Sunosi A A A A A A A A Cost of Product Sales A A A A A A A A Number of Asian markets | Market A A A A 12 A A A Revenue milestones \$ 165,000,000 A A \$ 165,000,000 A A A Development milestones \$ 1,000,000 A A \$ 1,000,000 A A A Auvility A A A A A A A A Cost of Product Sales A A A A A A A A License agreement royalty as a percent of net sales A A A A 3.00% A A A Jazz Pharmaceuticals Plc | Sunosi A A A A A A A A Cost of Product Sales A A A A A A A A Number of Asian markets | Market 12 A A A A A A X - DefinitionDevelopment milestones. + ReferencesNo definition available. + Details Name: axsm_DevelopmentMilestones Namespace Prefix: axsm_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionRepresents the percentage of net sales of products containing the licensed products, due to licensor as a royalty. + ReferencesNo definition available. + Details Name: axsm_LicenseAgreementRoyaltyDuePercentageOfNetSales Namespace Prefix: axsm_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionNumber of Asian markets. + ReferencesNo definition available. + Details Name: axsm_NumberOfAsianMarkets Namespace Prefix: axsm_ Data Type: xbrli:integerItemType Balance Type: na Period Type: duration X - DefinitionRepresents the number of financial institutions holding the Company's cash. + ReferencesNo definition available. + Details Name: axsm_NumberOfFinancialInstitutionsHoldingDeposits Namespace Prefix: axsm_ Data Type: xbrli:integerItemType Balance Type: na Period Type: instant X - DefinitionRevenue milestones. + ReferencesNo definition available. + Details Name: axsm_RevenueMilestones Namespace Prefix: axsm_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount charged to advertising expense for the period, which are expenses incurred with the objective of increasing revenue for a specified brand, product or product line. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 720 -SubTopic 35 -Name Accounting Standards Codification -Section 55 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483385/720-35-51Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 720 -SubTopic 35 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483406/720-35-50-1 + Details Name: us-gaap_AdvertisingExpense Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of allowance for credit loss on accounts receivable. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 326 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479344/326-20-45-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481962/310-10-50-4Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 326 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479319/326-20-50-13Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 326 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479319/326-20-50-13 + Details Name: us-gaap_AllowanceForDoubtfulAccountsReceivable Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_BusinessCombinationsAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. Excludes cash and cash equivalents within disposal group and discontinued operation. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_CashEquivalentsAtCarryingValue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_CashEquivalentsAtCarryingValueAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe aggregate cost of goods produced and sold and services rendered during the reporting period. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 48 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-48Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(i)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 7: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1B + Details Name: us-gaap_CostOfRevenueAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_CostOfRevenueAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionPercentage of current income tax expense (benefit) and deferred income tax expense (benefit) pertaining to continuing operations. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-12Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 231 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482663/740-10-55-231 + Details Name: us-gaap_EffectiveIncomeTaxRateContinuingOperations Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_EffectiveIncomeTaxRateContinuingOperationsTaxRateReconciliationAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionUseful life of finite-lived intangible assets, in 'PnYnMnDnHnMnS' format, for example, 'P1Y5M13D' represents the reported fact of one year, five months, and thirteen days. + ReferencesNo definition available. + Details Name: us-gaap_FiniteLivedIntangibleAssetUsefulLife Namespace Prefix: us-gaap_ Data Type: xbrli:durationItemType Balance Type: na Period Type: instant X - DefinitionAmount, after accumulated impairment loss, of asset representing future economic benefit arising from other asset acquired in business combination or from joint venture formation or both, that is not individually identified and separately recognized. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 49 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-49Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482548/350-20-55-24Reference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 100 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482078/820-10-55-100Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(15)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482598/350-20-45-1Reference 7: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1Reference 8: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(10)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1 + Details Name: us-gaap_Goodwill Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of current income tax expense (benefit) and deferred income tax expense (benefit) pertaining to continuing operations. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-12Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 231 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482663/740-10-55-231Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-9Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 6.1.7) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479360/740-10-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-8Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-10Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Subparagraph (a) -SubTopic 20 -Topic 740 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482659/740-20-45-2Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(h)) -SubTopic 10 -Topic 235 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1 + Details Name: us-gaap_IncomeTaxExpenseBenefit Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionNumber of operating segments. An operating segment is a component of an enterprise: (a) that engages in business activities from which it may earn revenues and incur expenses (including revenues and expenses relating to transactions with other components of the same enterprise), (b) whose operating results are regularly reviewed by the enterprise's chief operating decision maker to make decisions about resources to be allocated to the segment and assess its performance, and (c) for which discrete financial information is available. An operating segment may engage in business activities for which it has yet to earn revenues, for example, start-up operations may be operating segments before earning revenues. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 49 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-49Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -

Section 50 -Paragraph 18 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482810/280-10-50-18> + Details Name: us-gaap_NumberOfOperatingSegments Namespace Prefix: us-gaap_ Data Type: xbrli:integerItem Type Balance Type: na Period Type: duration X - DefinitionNumber of reporting units tested for impairment of goodwill. A reporting unit is an operating segment or one level below an operating segment. + ReferencesNo definition available. + Details Name: us-gaap_NumberOfReportingUnits Namespace Prefix: us-gaap_ Data Type: xbrli:integerItem Type Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_PropertyPlantAndEquipmentAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration X - DefinitionUseful life of long lived, physical assets used in the normal conduct of business and not intended for resale, in 'PnYmMdTnHnMnS' format, for example, 'P1Y5M13D' represents the reported fact of one year, five months, and thirteen days. Examples include, but not limited to, land, buildings, machinery and equipment, office equipment, furniture and fixtures, and computer equipment. + ReferencesNo definition available. + Details Name: us-gaap_PropertyPlantAndEquipmentUsefulLife Namespace Prefix: us-gaap_ Data Type: xbrli:durationItem Type Balance Type: na Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_ReceivablesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration X - DefinitionDescription of payment terms in contract with customer. Includes, but is not limited to, timing of payment, existence of financing component, variability of consideration and constraint on variable consideration. + ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12 -Subparagraph \(b\) -Publisher FASB -URI](http://www.xbrl.org/2003/role/disclosureRef-Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12 -Subparagraph (b) -Publisher FASB -URI) <https://asc.fasb.org/1943274/2147479806/606-10-50-12> + Details Name: us-gaap_RevenuePerformanceObligationDescriptionOfPaymentTerms Namespace Prefix: us-gaap_ Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_RisksAndUncertaintiesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_SegmentReportingDisclosureOfEntisReportableSegmentsAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration X - Details Name: srt_StatementScenarioAxis=srt_ScenarioForecastMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_ProductOrServiceAxis=us-gaap_LicenseMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_CounterpartyNameAxis=asxm_AuvelityMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_BusinessAcquisitionAxis=asxm_JazzPharmaceuticalsPlcMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 48 R41.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Accounts Receivable, net - Schedule of Accounts Receivable, Net (Details) - USD (\$) \$ in Thousands Jun. 30, 2024 Dec. 31, 2023 Receivables [Abstract] Å Å Trade receivables \$ 133,531 \$ 107,320 Less: Reserves for variable consideration (13,189) (12,500) Accounts receivable, net \$ 120,342 \$ 94,820 X - DefinitionReserves for Variable Consideration. + ReferencesNo definition available. + Details Name: asxm_ReservesForVariableConsideration Namespace Prefix: asxm_ Data Type: xbrli:monetaryItem Type Balance Type: credit Period Type: instant X - DefinitionTrade Receivables. + ReferencesNo definition available. + Details Name: asxm_TradeReceivables Namespace Prefix: asxm_ Data Type: xbrli:monetaryItem Type Balance Type: debit Period Type: instant X - DefinitionAmount, after allowance for credit loss, of right to consideration from customer for product sold and service rendered in normal course of business, classified as current. + ReferencesReference 1: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI> <https://asc.fasb.org/1943274/2147481990/310-10-45-2> + Details Name: us-gaap_AccountsReceivableNetCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItem Type Balance Type: debit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_ReceivablesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration XML 49 R42.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Accounts receivable, net Additional Information (Details) 6 Months Ended Jun. 30, 2024 Accounts Receivable [Member] | 'Customer Concentration Risk | Cardinal Health, Inc Cencora, Inc And McKesson Corporation Å Accounts, Notes, Loans and Financing Receivable [Line Items] Å Concentration risk, percentage 95.00% X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic 310 -SubTopic 20 -Name Accounting Standards Codification -Section 40 -Paragraph 7 -Publisher FASB -URI> <https://asc.fasb.org/1943274/2147481628/310-20-40-7>Reference 2: <http://www.xbrl.org/2003/role/disclosureRef-Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI> <https://asc.fasb.org/1943274/2147481990/310-10-45-2> + Details Name: us-gaap_AccountsNotesAndLoansReceivableLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration X - DefinitionFor an entity that discloses a concentration risk in relation to quantitative amount, which serves as the "benchmark" (or denominator) in the equation, this concept represents the concentration percentage derived from the division. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 42 -Publisher FASB -URI> <https://asc.fasb.org/1943274/2147482810/280-10-50-42>Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification -Topic 825 -SubTopic 10 -Section 50 -Paragraph 21 -Subparagraph \(a\) -Publisher FASB -URI](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification -Topic 825 -SubTopic 10 -Section 50 -Paragraph 21 -Subparagraph (a) -Publisher FASB -URI) <https://asc.fasb.org/1943274/2147482907/825-10-50-21>Reference 3: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification -Topic 825 -SubTopic 10 -Section 50 -Paragraph 20 -Publisher FASB -URI> <https://asc.fasb.org/1943274/2147482907/825-10-50-20>Reference 4: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification -Topic 275 -SubTopic 10 -Section 50 -Paragraph 18 -Publisher FASB -URI> <https://asc.fasb.org/1943274/2147482861/275-10-50-18>Reference 5: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification -Topic 275 -SubTopic 10 -Section 50 -Paragraph 20 -Publisher FASB -URI> <https://asc.fasb.org/1943274/2147482861/275-10-50-20> + Details Name: us-gaap_ConcentrationRiskPercentage1 Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItem Type Balance Type: na Period Type: duration X - Details Name: us-gaap_ConcentrationRiskByBenchmarkAxis=us-gaap_AccountsReceivableMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_ConcentrationRiskByTypeAxis=us-gaap_CustomerConcentrationRiskMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_MajorCustomersAxis=asxm_CardinalHealthIncCencoraIncAndMcKessonCorporationMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 50 R43.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Inventory - Schedule of Inventory (Details) - USD (\$) \$ in Thousands Jun. 30, 2024 Mar. 31, 2024 Dec. 31, 2023 Inventory Disclosure [Abstract] Å Å Raw materials \$ 7,771 Å \$ 5,534 Work in process 10,536 Å 10,287 Finished goods 8,270 Å 9,643 Total \$ 26,577 \$ 26,577 \$ 25,464 X - DefinitionInventory current and noncurrent. + ReferencesNo definition available. + Details Name: asxm_InventoryCurrentAndNoncurrent Namespace Prefix: asxm_ Data Type: xbrli:monetaryItem Type Balance Type: debit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_InventoryDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration X - DefinitionAmount before valuation and LIFO reserves of completed merchandise or goods expected to be sold within one year or operating cycle, if longer. + ReferencesReference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(6\)\(a\)\(1\)\) -Publisher FASB -URI](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(6)(a)(1)) -Publisher FASB -URI) <https://asc.fasb.org/1943274/2147480566/210-10-50-1> + Details Name: us-gaap_InventoryFinishedGoods Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItem Type Balance Type: debit Period Type: instant X - DefinitionAmount before valuation and LIFO reserves of raw materials expected to be sold, or consumed within one year or operating cycle, if longer. + ReferencesReference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(6\)\(a\)\(4\)\) -Publisher FASB -URI](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(6)(a)(4)) -Publisher FASB -URI) <https://asc.fasb.org/1943274/2147480566/210-10-50-1> + Details Name: us-gaap_InventoryRawMaterials Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItem Type Balance Type: debit Period Type: instant X - DefinitionAmount before valuation and LIFO reserves of merchandise or goods in the production process expected to be completed within one year or operating cycle, if longer. + ReferencesReference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(6\)\(a\)\(3\)\) -Publisher FASB -URI](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(6)(a)(3)) -Publisher FASB -URI) <https://asc.fasb.org/1943274/2147480566/210-10-50-1> + Details Name: us-gaap_InventoryWorkInProcess Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItem Type Balance Type: debit Period Type: instant XML 51 R44.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Inventory - Additional Information (Details) 6 Months Ended Jun. 30, 2024 USD (\$) \$ Inventory Disclosure [Abstract] Å Inventory write down \$ 0 X - ReferencesNo definition available. + Details Name: us-gaap_InventoryDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration X - DefinitionAmount of loss from reductions in inventory due to subsequent measurement adjustments, including, but not limited to, physical deterioration, obsolescence, or changes in price levels. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 330 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI> <https://asc.fasb.org/1943274/2147483080/330-10-50-2> + Details Name: us-gaap_InventoryWriteDown Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItem Type Balance Type: debit Period Type: duration XML 52 R45.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Inventory - Summary of Balance Sheet Classification of Inventory (Details) - USD (\$) \$ in Thousands Jun. 30, 2024 Mar. 31, 2024 Dec. 31, 2023 Inventory Disclosure [Abstract] Å Å Inventories, net \$ 15,220 Å \$ 15,135 Non-current inventory and other assets 11,357 Å 10,329 Total \$ 26,577 \$ 26,577 \$ 25,464 X - DefinitionInventory current and noncurrent. + ReferencesNo definition available. + Details Name: asxm_InventoryCurrentAndNoncurrent Namespace Prefix: asxm_ Data Type: xbrli:monetaryItem Type Balance Type: debit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_InventoryDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration X - DefinitionAmount after valuation and LIFO reserves of inventory expected to be sold, or consumed within one year or operating cycle, if longer. + ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI> <https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 2: [http://www.xbrl.org/2003/role/exampleRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph \(b\) -Publisher FASB -URI](http://www.xbrl.org/2003/role/exampleRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI) <https://asc.fasb.org/1943274/2147483467/210-10-45-1>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(6\)\) -Publisher FASB -URI](http://www.xbrl.org/2003/role/disclosureRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(6)) -Publisher FASB -URI) <https://asc.fasb.org/1943274/2147480566/210-10-50-1> + Details Name: us-gaap_InventoryNet Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItem Type Balance Type: debit Period Type: instant X - DefinitionInventories not expected to be converted to cash, sold or exchanged within the normal operating cycle. + ReferencesReference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(17\)\) -Publisher FASB -URI](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(17)) -Publisher FASB -URI) <https://asc.fasb.org/1943274/2147480566/210-10-50-1> + Details Name: us-gaap_InventoryNoncurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItem Type Balance Type: debit Period Type: instant XML 53 R46.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Intangible Asset - Schedule of Carrying Amount of Intangible Asset (Details) - USD (\$) \$ in Thousands Jun. 30, 2024 Dec. 31, 2023 Intangible Assets [Abstract] Å Å Gross carrying amount \$ 63,800 \$ 63,800 Accumulated amortization 13,693 10,514 Net carrying amount \$ 50,107 \$ 53,286 Remaining Weighted-Average Useful Life 8 years 9 years X - DefinitionIntangible Assets Abstract. + ReferencesNo definition available. + Details Name: asxm_IntangibleAssetsAbstract Namespace Prefix: asxm_ Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration X - DefinitionUseful life of finite-lived intangible assets, in 'PnYmMdTnHnMnS' format, for example, 'P1Y5M13D' represents the reported fact of one year, five months, and thirteen days. + ReferencesNo definition available. + Details Name: us-gaap_FiniteLivedIntangibleAssetUsefulLife Namespace Prefix: us-gaap_ Data Type: xbrli:durationItem Type Balance Type: na Period Type: instant X - DefinitionAccumulated amount of amortization of assets, excluding financial assets and goodwill, lacking physical substance with a finite life. + ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 40 -Publisher FASB -URI> <https://asc.fasb.org/1943274/2147482640/350-30-55-40>Reference 2: <http://www.xbrl.org/2003/role/disclosureRef-Topic 350 -SubTopic 10 -Name Accounting Standards Codification -Section S45 -Paragraph 1 -Publisher FASB -URI> <https://asc.fasb.org/1943274/2147480265/350-10-S45-1>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(a\)\(1\) -Publisher FASB -URI](http://www.xbrl.org/2003/role/disclosureRef-Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(1) -Publisher FASB -URI) <https://asc.fasb.org/1943274/2147482665/350-30-50-2>Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(16\)\) -Publisher FASB -URI](http://www.xbrl.org/2003/role/disclosureRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(16)) -Publisher FASB -URI) <https://asc.fasb.org/1943274/2147480566/210-10-50-1> + Details Name: us-gaap_FiniteLivedIntangibleAssetsAccumulatedAmortization Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItem Type Balance Type: credit Period Type: instant X - DefinitionAmount before amortization of assets, excluding financial assets and goodwill, lacking physical substance with a finite life. + ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 40 -Publisher FASB -URI> <https://asc.fasb.org/1943274/2147482640/350-30-55-40>Reference 2: <http://www.xbrl.org/2003/role/disclosureRef-Topic 350 -SubTopic 10 -Name Accounting Standards Codification -Section S45 -Paragraph 1 -Publisher FASB -URI> <https://asc.fasb.org/1943274/2147480265/350-10-S45-1>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(a\)\(1\) -Publisher FASB -URI](http://www.xbrl.org/2003/role/disclosureRef-Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(1) -Publisher FASB -URI) <https://asc.fasb.org/1943274/2147482665/350-30-50-2>Reference 4: <http://www.xbrl.org/2003/role/disclosureRef-Topic 928 -SubTopic 340 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI> <https://asc.fasb.org/1943274/2147478859/928-340-50-1> + Details Name: us-gaap_FiniteLivedIntangibleAssetsGross Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItem Type Balance Type: debit Period Type: instant X - DefinitionSum of the carrying amounts of all intangible assets, excluding goodwill, as of the balance sheet date, net of accumulated amortization and impairment charges. + ReferencesReference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(a\)\(1\) -Publisher FASB -URI](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(1) -Publisher FASB -URI) <https://asc.fasb.org/1943274/2147482665/350-30-50-2>Reference 2: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(b\) -Publisher FASB -URI](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (b) -Publisher FASB -URI) <https://asc.fasb.org/1943274/2147482665/350-30-50-2>Reference 3: <http://www.xbrl.org/2003/role/disclosureRef-Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI> <https://asc.fasb.org/1943274/2147482686/350-30-45-1> + Details Name: us-gaap_IntangibleAssetsNetExcludingGoodwill Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItem Type Balance Type: debit Period Type: instant XML 54 R47.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Intangible Asset - Schedule of Finite Lived Intangible Assets Future Amortization Expenses (Details) \$ in Thousands Jun. 30, 2024 USD (\$) \$ Intangible Assets [Abstract] Å 2024 \$ 3,214 2025 \$ 6,375 2026 \$ 6,375 2027 \$ 6,375 2028 \$ 6,392 Thereafter 21,376 Total \$ 50,107 X - DefinitionFinite lived intangible assets amortization expense after year four. + ReferencesNo definition available. + Details Name: asxm_FiniteLivedIntangibleAssetsAmortizationExpenseAfterYearFour Namespace Prefix: asxm_ Data Type: xbrli:monetaryItem Type Balance Type: debit Period Type: instant X - DefinitionIntangible Assets Abstract. + ReferencesNo definition available. + Details Name: asxm_IntangibleAssetsAbstract Namespace Prefix: asxm_ Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration X - DefinitionAmount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in next fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 40 -Publisher FASB -URI> <https://asc.fasb.org/1943274/2147482640/350-30-55-40>Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(a\)\(3\) -Publisher FASB -URI](http://www.xbrl.org/2003/role/disclosureRef-Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(3) -Publisher FASB -URI) <https://asc.fasb.org/1943274/2147482665/350-30-50-2>Reference 3: <http://www.xbrl.org/2003/role/disclosureRef-Topic 985 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI> <https://asc.fasb.org/1943274/2147481283/985-20-50-2> + Details Name: us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseNextTwelveMonths Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItem Type Balance Type: debit Period Type: instant X - DefinitionAmount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in remainder of current fiscal year. + ReferencesReference 1: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic 985 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI> <https://asc.fasb.org/1943274/2147481283/985-20-50-2> + Details Name: us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseRemainderOfFiscalYear Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItem Type Balance Type: debit Period Type: instant X - DefinitionAmount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in fourth fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 40 -Publisher FASB -URI> <https://asc.fasb.org/1943274/2147482640/350-30-55-40>Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(a\)\(3\) -Publisher FASB -URI](http://www.xbrl.org/2003/role/disclosureRef-Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(3) -Publisher FASB -URI) <https://asc.fasb.org/1943274/2147482665/350-30-50-2>Reference 3: <http://www.xbrl.org/2003/role/disclosureRef-Topic 985 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI> <https://asc.fasb.org/1943274/2147481283/985-20-50-2> + Details Name: us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseRemainderOfFiscalYear Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItem Type Balance Type: debit Period Type: instant X - DefinitionAmount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in remainder of current fiscal year. + ReferencesReference 1: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic 985 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI> <https://asc.fasb.org/1943274/2147481283/985-20-50-2> + Details Name: us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseRemainderOfFiscalYear Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItem Type Balance Type: debit Period Type: instant X - DefinitionAmount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in remainder of current fiscal year. + ReferencesReference 1: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic 985 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI> <https://asc.fasb.org/1943274/2147481283/985-20-50-2> + Details Name: us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseRemainderOfFiscalYear Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItem Type Balance Type: debit Period Type: instant X - DefinitionAmount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in remainder of current fiscal year. + ReferencesReference 1: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic 985 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI> <https://asc.fasb.org/1943274/2147481283/985-20-50-2> + Details Name: us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseRemainderOfFiscalYear Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItem Type Balance Type: debit Period Type: instant X - DefinitionAmount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in remainder of current fiscal year. + ReferencesReference 1: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic 985 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI> <https://asc.fasb.org/1943274/2147481283/985-20-50-2> + Details Name: us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseRemainderOfFiscalYear Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItem Type Balance Type: debit Period Type: instant X - DefinitionAmount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in remainder of current fiscal year. + ReferencesReference 1: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic 985 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI> <https://asc.fasb.org/1943274/2147481283/985-20-50-2> + Details Name: us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseRemainderOfFiscalYear Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItem Type Balance

<https://asc.fasb.org/1943274/2147482640/350-30-55-40>Reference 2: [http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482640/350-30-55-40](http://www.xbrl.org/2003/role/disclosureRef-Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 985 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481283/985-20-50-2 + Details Name: us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseYearFour Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in third fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: <a href=)Reference 2: [http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482640/350-30-55-40](http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 985 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481283/985-20-50-2 + Details Name: us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseYearThree Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in second fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: <a href=)Reference 2:

DefinitionCarrying value as of the balance sheet date of obligations incurred through that date and payable for royalties. Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer). + ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(20\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1)Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(20\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://www.xbrl.org/2003/role/exampleRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 8 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483467/210-10-45-8 + Details Name: us-gaap_AccruedRoyaltiesCurrent Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionCarrying value as of the balance sheet date of obligations incurred through that date and payable for sales commissions. Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer). + ReferencesReference 1: <a href=) + Details Name: us-gaap_EmployeeRelatedLiabilitiesCurrent Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionPresent value of lessee's discounted obligation for lease payments from finance lease, classified as current. + ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph \(b\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479041/842-20-45-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479041/842-20-45-1) + Details Name: us-gaap_FinanceLeaseLiabilityCurrent Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionCarrying value as of the balance sheet date of [accrued] interest payable on all forms of debt, including trade payables, that has been incurred and is unpaid. Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer). + ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(20\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1) + Details Name: us-gaap_InterestPayableCurrent Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionCarrying value as of the balance sheet date of obligations incurred and payable for statutory income, sales, use, payroll, excise, real, property and other taxes. Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer). + ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(20\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1)Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(19\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1) + Details Name: us-gaap_TaxesPayableCurrent Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant XML 60 R53.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Loan and Security Agreement - Additional Information (Details) - USD (\$) \$ in Thousands 6 Months Ended Jan. 09, 2023 Jun. 30, 2024 Aug. 31, 2023 May 08, 2023 Third Amendment To Loan and Security Agreement Á Á Á Á Line Of Credit Facility [Line Items] Á Á Á Á Maximum loan amount \$ 350,000 Á Á Á Á Tranches expire undrawn Á \$ 95,000 Á Á Á 45-day Period after Closing of Fourth Amendment to Loan and Security Agreement Á Á Á Á Line Of Credit Facility [Line Items] Á Á Á Á Cash Á Á Á \$ 10,000 Maximum | Fourth Amendment To Loan and Security Agreement Á Á Á Á Line Of Credit Facility [Line Items] Á Á Á Á Cash Á Á \$ 12,500 Á Prepayment Occurs Prior to First Anniversary of Closing Date | Third Amendment To Loan and Security Agreement Á Á Á Á Line Of Credit Facility [Line Items] Á Á Á Á Maximum loan amount 300,000 Á Á Á Á Tranche One Á Á Á Á Line Of Credit Facility [Line Items] Á Á Á Á Maximum loan amount 95,000 Á Á Á Á Tranche One Sub Tranche One Á Á Á Á Line Of Credit Facility [Line Items] Á Á Á Á Maximum loan amount 95,000 Á Á Á Á Tranche One Sub Tranche Two Á Á Á Á Line Of Credit Facility [Line Items] Á Á Á Á Maximum loan amount 55,000 Á Á Á Á Tranche One Sub Tranche Three Á Á Á Á Line Of Credit Facility [Line Items] Á Á Á Á Maximum loan amount 30,000 Á Á Á Á Tranche One Sub Tranche Four Á Á Á Á Line Of Credit Facility [Line Items] Á Á Á Á Maximum loan amount 35,000 Á Á Á Á Tranche One Sub Tranche Five Á Á Á Á Line Of Credit Facility [Line Items] Á Á Á Á Maximum loan amount 35,000 Á Á Á Á Tranche Two Sub Tranche One Á Á Á Á Line Of Credit Facility [Line Items] Á Á Á Á Maximum loan amount 35,000 Á Á Á Á Tranche Two Sub Tranche Three Á Á Á Á Line Of Credit Facility [Line Items] Á Á Á Á Maximum loan amount 30,000 Á Á Á Á Tranche Two Sub Tranches To One Tranche Á Á Á Á Line Of Credit Facility [Line Items] Á Á Á Á Maximum loan amount 25,000 Á Á Á Á Tranche Three Sub Tranche One Á Á Á Á Line Of Credit Facility [Line Items] Á Á Á Á Maximum loan amount 15,000 Á Á Á Á Tranche Three Sub Tranche Two Á Á Á Á Line Of Credit Facility [Line Items] Á Á Á Á Maximum loan amount 5,000 Á Á Á Á Tranche Three Sub Tranches to One Tranche Á Á Á Á Line Of Credit Facility [Line Items] Á Á Á Á Maximum loan amount 75,000 Á Á Á Á Term Loan 2020 Á Á Á Á Line Of Credit Facility [Line Items] Á Á Á Á Cash \$ 3,000 Á 3,000 Debt instrument maturity, month and year 2028-01 Á Á Á Á Interest rate basis 9.70% Á Á Á Á Base interest rate 9.95% Á Á Á Á Minimum different from remaining percentage of cash flow 10.00% Á Á Á Á Final payment fee Á \$ 4,450 Á Á Percentage of final payment fee Á 1.10% Á Á Á Increase in minimum cash requirement amount \$ 30,000 Á Á Á Percentage of facility fee to be paid 0.75% Á Á Á Term Loan 2020 | Fourth Amendment To Loan and Security Agreement Á Á Á Á Line Of Credit Facility [Line Items] Á Á Á Á Cash Á Á Á \$ 15,000 Term Loan 2020 | Minimum Á Á Á Á Line Of Credit Facility [Line Items] Á Á Á Á Base interest rate 7.00% Á Á Á Á Term Loan 2020 | Maximum Á Á Á Á Line Of Credit Facility [Line Items] Á Á Á Á Interest rate basis 10.70% Á Á Á Á Term Loan 2020 | Prime Rate Á Á Á Á Line Of Credit Facility [Line Items] Á Á Á Á Interest rate basis 2.20% Á Á Á Á Term Loan 2020 | Prime Rate | Maximum Á Á Á Á Line Of Credit Facility [Line Items] Á Á Á Á Interest rate basis 7.00% Á Á Á Á Term Loan 2020 | Outstanding principle and advances under the loans agreement exceeds 55 million Á Á Á Á Line Of Credit Facility [Line Items] Á Á Á Á Minimum cash to be maintain as a first priority security interest Á \$ 30,000 Á Á Term Loan 2020 | Outstanding principle and advances under the loans agreement exceeds 65 million Á Á Á Á Line Of Credit Facility [Line Items] Á Á Á Á Minimum amount of market capital to be maintained Á \$ 1,500,000 Á Á Á Minimum percentage of cash to be maintained as a security following market capitalization condition Á 50.00% Á Á Á Minimum percentage of cash to be maintained as a security Á 95.00% Á Á Term Loan 2020 | Outstanding principle and advances under the loans agreement exceeds 65 million | AXS-05 and AXS-07 Á Á Á Á Line Of Credit Facility [Line Items] Á Á Á Á Minimum product revenue percent Á 60.00% Á Á Term Loan 2020 | Prepayment Occurs Prior to February 1, 2024 Á Á Á Á Line Of Credit Facility [Line Items] Á Á Á Á Percentage of prepayment penalty Á 2.00% Á Á Term Loan 2020 | Prepayment Occurs On or After February 1, 2024 but Prior to February 1, 2025 Á Á Á Á Line Of Credit Facility [Line Items] Á Á Á Á Percentage of prepayment penalty Á 1.50% Á Á Term Loan 2020 | Prepayment Occurs On or After February 1, 2025 but Prior to February 1, 2026 Á Á Á Á Line Of Credit Facility [Line Items] Á Á Á Á Percentage of prepayment penalty Á 1.00% Á Á Term Loan Advances Other Than Tranche 1A Á Á Á Á Line Of Credit Facility [Line Items] Á Á Á Á Percentage of final payment fee Á 4.95% Á Á Term Loan Advances Á Á Á Á Line Of Credit Facility [Line Items] Á Á Á Á Percentage of final payment fee Á 1.00% Á Á X - DefinitionThe final payment fee to be paid under the debt arrangement as a percentage of aggregate amount of all term loan advances minus the aggregate amount of repayments made. + ReferencesNo definition available. + Details Name: axsm_DebtInstrumentFinalPaymentFeeThresholdPercentageOfDebtOutstanding Namespace Prefix: axsm_Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionRepresents the prepayment penalty percentage on principal amount of debt. + ReferencesNo definition available. + Details Name: axsm_DebtInstrumentPrepaymentPenaltyPercentage Namespace Prefix: axsm_Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionDebt instruments maturity, month and year. + ReferencesNo definition available. + Details Name: axsm_DebtInstrumentsMaturityMonthAndYear Namespace Prefix: axsm_Data Type: xbrli:gYearMonthItemType Balance Type: na Period Type: duration X - DefinitionThe final payment fee at extinguishment of debt. + ReferencesNo definition available. + Details Name: axsm_ExtinguishmentOfDebtFeeAmount Namespace Prefix: axsm_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionLong Term debt additional drawn covenant minimum cash. + ReferencesNo definition available. + Details Name: axsm_LongTermDebtAdditionalDrawnCovenantMinimumCash Namespace Prefix: axsm_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionThe minimum amount of cash should be maintained as first priority security interest under the terms of debt instrument. + ReferencesNo definition available. + Details Name: axsm_LongTermDebtAdditionalDrawnCovenantMinimumCashAsSecurityInterest Namespace Prefix: axsm_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionThe minimum percentage of cash to be maintained under debt instruments. + ReferencesNo definition available. + Details Name: axsm_LongTermDebtAdditionalDrawnCovenantMinimumCashToBeMaintainedAsSecurityPercent Namespace Prefix: axsm_Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionThe minimum percentage of cash to be maintained as security following the market capitalization conditions under the debt instruments. + ReferencesNo definition available. + Details Name: axsm_LongTermDebtAdditionalDrawnCovenantMinimumCashToBeMaintainedAsSecurityWithMarketCapitalizationCovenantPercent Namespace Prefix: axsm_Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionThe minimum amount of market capital to be maintained under debt instruments. + ReferencesNo definition available. + Details Name: axsm_LongTermDebtAdditionalDrawnCovenantMinimumMarketCapitalizationAmount Namespace Prefix: axsm_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe minimum percentage of revenue should be achieved under the debt instrument. + ReferencesNo definition available. + Details Name: axsm_LongTermDebtAdditionalDrawnMinimumRevenuePercent Namespace Prefix: axsm_Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionLong term debt different from remaining drawn covenant minimum cash flow percentage. + ReferencesNo definition available. + Details Name: axsm_LongTermDebtDifferentFromRemainingDrawnCovenantMinimumCashFlowPercentage Namespace Prefix: axsm_Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionPercentage of facility fee to be paid. + Details Name: axsm_PercentageOffFacilityFeeToBePaid Namespace Prefix: axsm_Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionUndrawn expire tranches. + ReferencesNo definition available. + Details Name: axsm_UndrawnExpireTranches Namespace Prefix: axsm_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of currency on hand as well as demand deposits with banks or financial institutions. Includes other kinds of accounts that have the general characteristics of demand deposits. Excludes cash and cash equivalents within disposal group and discontinued operation. + ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 2: <http://www.xbrl.org/2003/role/exampleRef-Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-12>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.7-03\(a\)\(2\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-50-6](http://www.xbrl.org/2003/role/disclosureRef-Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-50-6)Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.6-04\(4\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1)Reference 5: <http://www.xbrl.org/2003/role/disclosureRef-Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section 45 -Paragraph 21 -Publisher FASB -URI https://asc.fasb.org/1943274/2147477796/946-210-45-21>Reference 6: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(1\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1)Reference 7: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(22\)\(a\)\(1\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Name Accounting Standards Codification -Section 45 -Paragraph 20 -SubTopic 210 -Topic 946 -Publisher FASB -URI https://asc.fasb.org/1943274/2147477796/946-210-45-20 + Details Name: us-gaap_Cash Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionPercentage points added to the reference rate to compute the variable rate on the debt instrument. + ReferencesNo definition available. + Details Name: us-gaap_DebtInstrumentBasisSpreadOnVariableRate1 Namespace Prefix: us-gaap_Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionContractual interest rate for funds borrowed, under the debt agreement. + ReferencesReference 1: <a href=)Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Subparagraph \(b\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481544/470-10-50-6](http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1B + Details Name: us-gaap_DebtInstrumentInterestRateStatedPercentage Namespace Prefix: us-gaap_Data Type: dtr-types:percentItemType Balance Type: na Period Type: instant X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: <a href=)Reference 3: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(2\)\(b\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(f)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1 + Details Name: us-gaap_LineOfCreditFacilityLineItems Namespace Prefix: us-gaap_Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionMaximum borrowing capacity under the credit facility without consideration of any current restrictions on the amount that could be borrowed or the amounts currently outstanding under the facility. + ReferencesReference 1: <a href=)Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(19\)\(b\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(19)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1) + Details Name: us-gaap_LineOfCreditFacilityMaximumBorrowingCapacity Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - Details Name: us-gaap_LongtermDebtTypeAxis=axsm_ThirdAmendmentToLoanAndSecurityAgreementMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_LongtermDebtTypeAxis=axsm_FortyFiveDayPeriodAfterClosingOfFourthAmendmentToLoanAndSecurityAgreementMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_RangeAxis=srt_MaximumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_LongtermDebtTypeAxis=axsm_FourthAmendmentToLoanAndSecurityAgreementMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_StatementScenarioAxis=axsm_DebtInstrumentPrepaymentOccurringPriorToFirstAnniversaryOfClosingDateMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_DebtInstrumentAxis=axsm_TrancheOneMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_DebtInstrumentAxis=axsm_TrancheOneSubTrancheOneMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_DebtInstrumentAxis=axsm_TrancheOneSubTrancheTwoMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_DebtInstrumentAxis=axsm_TrancheOneSubTrancheThreeMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_DebtInstrumentAxis=axsm_TrancheOneSubTrancheFourMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_DebtInstrumentAxis=axsm_TrancheOneSubTrancheFiveMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_DebtInstrumentAxis=axsm_TrancheTwoSubTrancheOneMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-

`us-gaap_DebtInstrumentAxis=asxm TrancheTwoSubTrancheThreeMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_DebtInstrumentAxis=asxm TrancheTwoSubTrancheThreeMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_DebtInstrumentAxis=asxm TrancheTwoSubTrancheOneTrancheMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_DebtInstrumentAxis=asxm TrancheThreeSubTrancheOneMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_DebtInstrumentAxis=asxm TrancheThreeSubTrancheTwoMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_DebtInstrumentAxis=asxm TrancheThreeSubTranchesToOneTrancheMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_DebtInstrumentAxis=asxm TermLoan200Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_RangeAxis=srt_MinimumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_VariableRateAxis=us-gaap_PrimeRateMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_StatementScenarioAxis=asxm_OutstandingAdvancesUnderLoanAgreementEqualsOrExceedsFiftyFiveMillionMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_StatementScenarioAxis=asxm_OutstandingAdvancesUnderLoanAgreementEqualsOrExceedsSixtyFiveMillionMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_ProductOrServiceAxis=asxm_Axs05AndAxs07Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_StatementScenarioAxis=asxm_DebtInstrumentPrepaymentOccurringPriorToFebruaryOneTwoThousandTwentyFourMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_StatementScenarioAxis=asxm_DebtInstrumentPrepaymentOccurringOnOrAfterFebruaryOneTwoThousandTwentyFourButPriorToFebruaryOneTwoThousandTwentyFiveMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_StatementScenarioAxis=asxm_TermLoanAdvancesOtherThanTrancheOneAMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_DebtInstrumentAxis=asxm_TermLoanAdvancesMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 61 R54.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Loan and Security Agreement - Schedule of Outstanding Debt and Unamortized Debt Discount Balances (Details) - USD ($) $ in Thousands Jun. 30, 2024 Dec. 31, 2023 Debt Disclosure [Abstract] A Total Outstanding Debt $ 180,000 Add: accreted final payment fee 3,318 2,610 Less: unamortized debt discount, long-term (3,988) (4,540) Loan payable, long-term $ 179,330 $ 178,070 X- DefinitionDebt instrument accreted final payment fee. + ReferencesNo definition available. + Details Name: asxm_DebtInstrumentAccretedFinalPaymentFee Namespace Prefix: asxm_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_DebtDisclosureAbstract Namespace Prefix: us-gaap_Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount, before unamortized (discount) premium and debt issuance costs, of long-term debt. Includes, but is not limited to, notes payable, bonds payable, commercial loans, mortgage loans, convertible debt, subordinated debt and other types of debt. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)) -SubTopic 10 -Topic 210 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(16)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (b)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-4 + Details Name: us-gaap_DebtInstrumentCarryingAmount Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of debt discount to be amortized after one year or the normal operating cycle, if longer. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-1Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-2Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482900/835-30-50-1 + Details Name: us-gaap_DebtInstrumentUnamortizedDiscountNoncurrent Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount, after deduction of unamortized premium (discount) and debt issuance cost, of long-term debt classified as noncurrent. Excludes lease obligation. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_LongTermDebtNoncurrent Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant XML 62 R55.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Loan and Security Agreement - Summary of Interest Expense and Amortization of Final Payment Fee, Amortization of Debt Discount Related to Issuance Costs and Warrants (Details) - USD ($) $ in Thousands 3 Months Ended 6 Months Ended Jun. 30, 2024 Jun. 30, 2023 Jun. 30, 2024 Jun. 30, 2023 Line of Credit Facility [Line Items] A A A Interest expense $ 4,869 $ 4,067 $ 9,738 $ 7,702 Amortization of final payment fee 360 272 709 522 Amortization of debt discount related issuance costs and warrants A 1,260 1,493 Warrants A A A Line of Credit Facility [Line Items] A A A Amortization of debt discount related issuance costs and warrants $ 281 $ 637 $ 551 $ 971 X - DefinitionAmount of noncash expense included in interest expense to amortize debt discount and premium associated with the related debt instruments. Excludes amortization of financing costs. Alternate captions include noncash interest expense. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(8)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1F -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1FReference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-3 + Details Name: us-gaap_AmortizationOffFinancingCosts Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionRepresents the portion of interest incurred in the period on debt arrangements that was charged against earnings, excluding amortization of debt discount (premium) and financing costs. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(8)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69E -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69EReference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69F -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69FReference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1F -Subparagraph (b)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1F + Details Name: us-gaap_InterestExpenseDebtExcludingAmortization Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481544/470-10-50-6Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481544/470-10-50-6Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(f)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1 + Details Name: us-gaap_LineOfCreditFacilityLineItems Namespace Prefix: us-gaap_Data Type: xbrli:stringItemType Balance Type: duration X - Details Name: us-gaap_StatementEquityComponentsAxis=us-gaap_WarrantMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 63 R56.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Loan and Security Agreement - Schedule of Principal Payments (Details) - USD ($) $ in Thousands Jun. 30, 2024 Dec. 31, 2023 Debt Disclosure [Abstract] A A 2028 $ 180,000 A Total principal payments outstanding $ 180,000 $ 180,000 X - ReferencesNo definition available. + Details Name: us-gaap_DebtDisclosureAbstract Namespace Prefix: us-gaap_Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount, before unamortized (discount) premium and debt issuance costs, of long-term debt. Includes, but is not limited to, notes payable, bonds payable, commercial loans, mortgage loans, convertible debt, subordinated debt and other types of debt. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)) -SubTopic 10 -Topic 210 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(16)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (b)(1) -Publisher FASB -URI https://asc.fasb.org/1943274`

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<https://asc.fasb.org/1943274/214748964/842-20-6> + Details Name: us-gaap_LesseeOperatingLeaseLiabilityUndiscountedExcessAmount Namespace Prefix: us-gaap Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_OperatingLeaseLiabilitiesPaymentsDueAbstract Namespace Prefix: us-gaap Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionPresent value of lessee's discounted obligation for lease payments from operating lease. + ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph \(b\) -Publisher FASB -URI https://asc.fasb.org/1943274/214749041/842-20-45-1](http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/214749041/842-20-45-1) + Details Name: us-gaap_OperatingLeaseLiability Namespace Prefix: us-gaap Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant XML 67 R60.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Stockholders' Equity - Additional Information (Details) 1 Months Ended 3 Months Ended 6 Months Ended 12 Months Ended Jul. 31, 2023 USD (\$) / shares shares Dec. 31, 2022 USD (\$) Aug. 31, 2022 USD (\$) Mar. 31, 2022 USD (\$) Dec. 31, 2019 USD (\$) Jun. 30, 2024 USD (\$) / shares shares Jun. 30, 2023 USD (\$) / shares Jun. 30, 2024 USD (\$) Vote \$ / shares shares Jun. 30, 2023 USD (\$) Dec. 31, 2023 USD (\$) Dec. 31, 2022 USD (\$) shares Dec. 31, 2021 USD (\$) shares Share Based Compensation Arrangement By Share Based Payment Award [Line Items] A A A A A A A A Expected cash dividend A A A A A A A A Expense A A A A A A \$ 21,382,000 \$ 15,922,000 41,572 \$ 28,865 A A A Stock-based compensation expense capitalized A A A A A A A A 300,000 \$ 900,000 700,000 1,600,000 A A A Proceeds from Issuance of Common Stock A A A A A A A A \$ 11,264,000 \$ 225,000,000 A A A Common stock, voting right per share | Vote A A A A A A A A Weighted average grant date fair value | \$ / shares A A A A A A A A \$ 64.42 A A A A Unrecognized compensation cost related to non-vested stock options expected to be recognized A A A A A A A A \$ 177,500,000 A A A \$ 177,500,000 A A A A Expected vesting period for non-vested share-based compensation A A A A A A A A 2 years 8 months 12 days A A A A Common Stock A A A A A A A A A A Share Based Compensation Arrangement By Share Based Payment Award [Line Items] A A A A A A A A A A Issuance of common stock | shares A A A A A A A A 148,875 3,000,000 A A A A A A Restricted Stock Units A A A A A A A A A A Share Based Compensation Arrangement By Share Based Payment Award [Line Items] A A A A A A A A A A Vesting period A A A A A A A A 4 years A A A A Compensation cost not yet recognized related to unvested RSUs A A A A A A A A \$ 44,800,000 A A A \$ 44,800,000 A A A Weighted average contractual term A A A A A A A A 2 years 9 months 18 days A A A A Intrinsic value lapsed A A A A A A A A \$ 7,600,000 A A A \$ 7,600,000 A A A 2015 Plan A A A A A A A A A A Share Based Compensation Arrangement By Share Based Payment Award [Line Items] A A A A A A A A A A Shares available for future grant | shares A A A A A A A A 1,183,992 A A A 1,183,992 A A A June 2023 Public Offering A A A A A A A A A A Share Based Compensation Arrangement By Share Based Payment Award [Line Items] A A A A A A A A A A Proceeds from Issuance of Common Stock \$ 31,700,000 A A A A A A A A \$ 211,300,000 A A A A Underwriting discounts and commissions \$ 2,000,000 A A A A \$ 13,500,000 A A A 13,500,000 A A A A Other offering costs A A A A A A A A \$ 200,000 A A A A June 2023 Public Offering | Common Stock A A A A A A A A A A Share Based Compensation Arrangement By Share Based Payment Award [Line Items] A A A A A A A A A A Share Price | \$ / shares \$ 75 A A A A \$ 75 A A A A Issuance of common stock | shares 450,000 A A A A A A 3,000,000 A A A Employee Stock Purchase Plan A A A A A A A A A A Share Based Compensation Arrangement By Share Based Payment Award [Line Items] A A A A A A A A A A Shares issued | shares A A A A A A A A 52,368 A A A A Purchase price of common stock percent A A A A A A A A 85.00% A A A A Expense A A A A A A \$ 400,000 A A \$ 800,000 A A A March 2022 Sales Agreement A A A A A A A A A A Share Based Compensation Arrangement By Share Based Payment Award [Line Items] A A A A A A A A A A A A A A A A A A Proceeds from issuance of common stock, gross A A A A A A A A \$ 11,300,000 A A A A A A Shares issued | shares A A A A A A A A 148,875 A A A A Proceeds from issuance of common stock, net A A A A A A A A \$ 11 A A A A A A A A Leerink | December 2019 Sales Agreement A A A A A A A A A A Share Based Compensation Arrangement By Share Based Payment Award [Line Items] A A A A A A A A A A Proceeds from issuance of common stock, gross A A A A A A A A A A A A \$ 7,400,000 Shares issued | shares A A A A A A A A 110,296 Proceeds from issuance of common stock, net A A A A A A A A A A A A \$ 7,200,000 Common stock sales agreement, commission percentage A A A 3.00% A A A A A A A A Leerink | March 2022 Sales Agreement A A A A A A A A A A Share Based Compensation Arrangement By Share Based Payment Award [Line Items] A A A A A A A A A A Common stock sales agreement, authorized amount A A A A A A A A \$ 250,000,000 A A A A A A A A Proceeds from Issuance of Common Stock A A A A A A \$ 0 A A \$ 0 A A Leerink | December 2019 and March 2022 Sales Agreement A A A A A A A A A A Share Based Compensation Arrangement By Share Based Payment Award [Line Items] A A A A A A A A A A A A A A A A A A Proceeds from issuance of common stock, gross A A A A A A A A A A \$ 238,800,000 A A A A Shares issued | shares A A A A A A A A 5,167,973 A A A Proceeds from issuance of common stock, net A A A A A A A A A A \$ 231,800,000 A A A Maximum | Leerink | December 2019 Sales Agreement A A A A A A A A A A Share Based Compensation Arrangement By Share Based Payment Award [Line Items] A A A A A A A A A A Common stock sales agreement, authorized amount A A A A A A A A \$ 80,000,000 A A A A A A A A Maximum | Leerink | March 2022 Sales Agreement A A A A A A A A A A Share Based Compensation Arrangement By Share Based Payment Award [Line Items] A A A A A A A A A A Common stock sales agreement, authorized amount A A A A A A A A \$ 250,000,000 A A A A A A A A Common stock sales agreement, commission percentage A A 3.00% 3.00% A A A A A A A A Hercules Capital Inc | March 2022 Sales Agreement A A A A A A A A A A Share Based Compensation Arrangement By Share Based Payment Award [Line Items] A A A A A A A A A A Shares issued | shares A A A A A A A A 152,487 A A A A Proceeds from issuance of common stock, net A A A A A A A A \$ 5,000,000 A A A A Share Price | \$ / shares A A A A \$ 32.79 A A \$ 32.79 A A A X - DefinitionThe authorized amount under a common stock sales agreement. + ReferencesNo definition available. + Details Name: axsm_CommonStockSalesAgreementAuthorizedAmount Namespace Prefix: axsm Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe commission percentage paid under a common stock sales agreement. + ReferencesNo definition available. + Details Name: axsm_CommonStockSalesAgreementCommissionPercentage Namespace Prefix: axsm Data Type: dtr-types:percentItemType Balance Type: na Period Type: instant X - DefinitionRepresents the number of votes per share each holder of shares is entitled to. + ReferencesNo definition available. + Details Name: axsm_EquityInstrumentVotingRightsPerShare Namespace Prefix: axsm Data Type: xbrli:integerItemType Balance Type: na Period Type: duration X - DefinitionOther offering costs. + ReferencesNo definition available. + Details Name: axsm_OtherOfferingCosts Namespace Prefix: axsm Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionSharebased compensation arrangement by sharebased payment award other than option lapsed intrinsic value. + ReferencesNo definition available. + Details Name: axsm_SharebasedCompensationArrangementBySharebasedPaymentAwardOtherThanOptionLapsedIntrinsicValue Namespace Prefix: axsm Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionNumber of shares of stock issued during the period pursuant to a financing arrangement. + ReferencesNo definition available. + Details Name: axsm_StockIssuedDuringPeriodSharesFinancing Namespace Prefix: axsm Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionNet equity impact of the value of new stock issued during the period. Includes shares issued in an initial public offering or a secondary public offering. + ReferencesNo definition available. + Details Name: axsm_StockIssuedDuringPeriodValueNewIssuesNet Namespace Prefix: axsm Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionUnderwriting discounts and commissions. + ReferencesNo definition available. + Details Name: axsm_UnderwritingDiscountsAndCommissions Namespace Prefix: axsm Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of expense for award under share-based payment arrangement. Excludes amount capitalized. + ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1 -Subparagraph \(SAB Topic 14.F\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479830/718-10-S99-1](http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1 -Subparagraph (SAB Topic 14.F) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479830/718-10-S99-1) Reference 2: [http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(h\)\(1\)\(i\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (h)(1)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2) + Details Name: us-gaap_AllocatedShareBasedCompensationExpense Namespace Prefix: us-gaap Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of cost capitalized for award under share-based payment arrangement. + ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(h\)\(1\)\(ii\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (h)(1)(ii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2) + Details Name: us-gaap_EmployeeServiceShareBasedCompensationAllocationOfRecognizedPeriodCostsCapitalizedAmount Namespace Prefix: us-gaap Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionWeighted-average period over which cost not yet recognized is expected to be recognized for award under share-based payment arrangement, in 'PnYmMndTnHnMns' format, for example, 'P1Y5M13D' represents reported fact of one year, five months, and thirteen days. + ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(i\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2) + Details Name: us-gaap_EmployeeServiceShareBasedCompensationNonvest

50 -Paragraph 2 -Subparagraph (e)(1) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480429/718-10-50-2>Reference 23: [http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(e\)\(2\)](http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (e)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480429/718-10-50-2>Reference 24: [http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(f\)\(2\)\(i\)](http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480429/718-10-50-2>Reference 25: [http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(f\)\(2\)\(ii\)](http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(ii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480429/718-10-50-2>Reference 26: [http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(f\)\(2\)\(iii\)](http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(iii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480429/718-10-50-2>Reference 27: [http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(f\)\(2\)\(iv\)](http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(iv) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480429/718-10-50-2>Reference 28: [http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(f\)\(2\)\(v\)](http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(v) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480429/718-10-50-2> + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe difference between the maximum number of shares (or other type of equity) authorized for issuance under the plan (including the effects of amendments and adjustments), and the sum of: 1) the number of shares (or other type of equity) already issued upon exercise of options or other equity-based awards under the plan; and 2) shares (or other type of equity) reserved for issuance on granting of outstanding awards, net of cancellations and forfeitures, if applicable. + ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 718 -SubTopic 10 -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2> + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardNumberOfSharesAvailableForGrant Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionThe weighted average grant-date fair value of options granted during the reporting period as calculated by applying the disclosed option pricing methodology. + ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(d\)\(1\)](http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (d)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480429/718-10-50-2> + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsGrantsInPeriodWeightedAverageGrantDateFairValue Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - DefinitionPrice of a single share of a number of saleable stocks of a company. + ReferencesNo definition available. + Details Name: us-gaap_SharePrice Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - DefinitionPurchase price of common stock expressed as a percentage of its fair value. + ReferencesNo definition available. + Details Name: us-gaap_SharebasedCompensationArrangementBySharebasedPaymentAwardPurchasePriceOfCommonStockPercent Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionNumber of new stock issued during the period. + ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2>Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(28\)\)](http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1>Reference 3: [http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(29\)\)](http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1>Reference 4: [http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 505 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 505 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2)Reference 5: [http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph \(SX 210.6-09\(4\)\(b\)\)](http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479134/946-220-S99-3>Reference 6: [http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph \(SX 210.6-03\(i\)\)](http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-03(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479886/946-10-S99-3) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479886/946-10-S99-3>Reference 7: [http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.3-04\)](http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480008/505-10-S99-1> + Details Name: us-gaap_StockIssuedDuringPeriodSharesNewIssues Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionEquity impact of the value of new stock issued during the period. Includes shares issued in an initial public offering or a secondary public offering. + ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2>Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(28\)\)](http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1>Reference 3: [http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(29\)\)](http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1>Reference 4: <http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-1>Reference 5: [http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 205 -Name Accounting Standards Codification -Section 45 -Paragraph 4 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478009/946-205-45-4](http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 205 -Name Accounting Standards Codification -Section 45 -Paragraph 4 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478009/946-205-45-4)Reference 6: [http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 505 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 505 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2)Reference 7: [http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph \(SX 210.6-09\(4\)\(b\)\)](http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479134/946-220-S99-3>Reference 8: [http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.3-04\)](http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480008/505-10-S99-1> + Details Name: us-gaap_StockIssuedDuringPeriodValueNewIssues Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - Details Name: us-gaap_StatementEquityComponentsAxis=us-gaap_CommonStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AwardTypeAxis=us-gaap_RestrictedStockUnitsRSUMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_PlanNameAxis=axsm_TwoThousandAndFifteenEquityCompensationPlanMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_SubsiarySaleOfStockAxis=axsm_JuneTwoThousandTwentyThreePublicOfferingMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_SubsiarySaleOfStockAxis=us-gaap_EmployeeStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_TypeOfArrangementAxis=axsm_MarchTwoThousandTwentyTwoSalesAgreementMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_ScheduleOfOffEquityMethodInvestmentEquityMethodInvesteeNameAxis=axsm_LeerinkMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_TypeOfArrangementAxis=axsm_DecemberTwoThousandNineteenSalesAgreementMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_TypeOfArrangementAxis=axsm_DecemberTwoThousandNineteenAndMarchTwoThousandTwentyTwoSalesAgreementMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_RangeAxis=srt_MaximumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_LineOfCreditFacilityAxis=axsm_HerculesCapitalIncMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 68 R61.htm IDEA: XBRL DOCUMENT v3.24.2.u1

Stockholders' Equity - Summary of Stock Option Activity (Details) 6 Months Ended Jun. 30, 2024 USD (\$)

	\$ / shares	shares	Number of shares	À	Number of shares	Outstanding	beginning balance		shares	8,462,294	Number of shares	Granted		shares	1,047,180	Number of shares	Exercised		shares	(193,125)	Number of shares	Forfeited/Canceled		shares	(377,542)	Number of shares	Outstanding	ending balance		shares	8,938,807	Number of shares	Vested and expected to vest		shares	8,938,807	Number of shares	Exercisable		shares	5,066,333	Weighted average exercise price	À	Weighted average exercise price	Outstanding	beginning balance		\$ / shares	41.48	Weighted average exercise price	Granted		\$ / shares	83.23	Weighted average exercise price	Exercised		\$ / shares	32.59	Weighted average exercise price	Forfeited/Canceled		\$ / shares	59.88	Weighted average exercise price	Outstanding	ending balance		\$ / shares	45.79	Weighted average exercise price	Vested and expected to vest		\$ / shares	45.79	Weighted average exercise price	Exercisable		\$ / shares	32.08	Weighted average exercise price	contractual term	À	Weighted average contractual term	Outstanding	6 years 9 months 18 days	Weighted average contractual term	Vested and expected to vest	6 years 9 months 18 days	Weighted average contractual term	Exercisable	5 years 3 months 18 days	Aggregate intrinsic value	À	Aggregate intrinsic value	Outstanding		\$	314,480	Aggregate intrinsic value	Vested and expected to vest	314,480	Aggregate intrinsic value	Exercisable		\$	245,888	X - DefinitionShare-based compensation arrangement by share-based payment award options forfeitures or canceled in period. + ReferencesNo definition available. + Details Name: axsm_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsForfeituresOrCanceledInPeriod Namespace Prefix: axsm_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionShare-based compensation arrangement by share-based payment award options forfeitures or canceled in period, weighted average exercise price. + ReferencesNo definition available. + Details Name: axsm_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsForfeituresOrCanceledInPeriodWeightedAverageExercisePrice Namespace Prefix: axsm_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsAdditionalDisclosuresAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe number of shares into which fully or partially vested stock options outstanding as of the balance sheet date can be currently converted under the option plan. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1) (iii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsExercisableNumber Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionThe weighted-average price as of the balance sheet date at which grantees can acquire the shares reserved for issuance on vested portions of options outstanding and currently exercisable under the stock option plan. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsExercisableWeightedAverageExercisePrice Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - DefinitionGross number of share options (or share units) granted during the period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(01) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsGrantsInPeriodGross Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionAmount by which the current fair value of the underlying stock exceeds the exercise price of options outstanding. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 718 -SubTopic 10 -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsOutstandingIntrinsicValue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionNumber of options outstanding, including both vested and non-vested options. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(ii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsOutstandingNumber Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionA roll forward is a reconciliation of a concept from the beginning of a period to the end of a period. + ReferencesNo definition available. + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsOutstandingRollForward Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionWeighted average price at which grantees can acquire the shares reserved for issuance under the stock option plan. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(ii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsOutstandingWeightedAverageExercisePriceRollforward Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsVestedAndExpectedToVestAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount by which current fair value of underlying stock exceeds exercise price of fully vested and expected to vest exercisable or convertible options. Includes, but is not limited to, unvested options for which requisite service period has not been rendered but that are expected to vest based on achievement of performance condition, if forfeitures are recognized when they occur. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (e)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsVestedAndExpectedToVestExercisableAggregateIntrinsicValue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount by which current fair value of underlying stock exceeds exercise price of fully vested and expected to vest options outstanding. Includes, but is not limited to, unvested options for which requisite service period has not been rendered but that are expected to vest based on achievement of performance condition, if forfeitures are recognized when they occur. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (e)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsVestedAndExpectedToVestOutstandingAggregateIntrinsicValue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionNumber of fully vested and expected to vest options outstanding that can be converted into shares under option plan. Includes, but is not limited to, unvested options for which requisite service period has not been rendered but that are expected to vest based on achievement of performance condition, if forfeitures are recognized when they occur. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (e)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsVestedAndExpectedToVestOutstandingNumber Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionWeighted-average exercise price, at which grantee can acquire shares reserved for issuance, for fully vested and expected to vest options outstanding. Includes, but is not limited to, unvested options for which requisite service period has not been rendered but that are expected to vest based on achievement of performance
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condition, if forfeitures are recognized when they occur. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (e)(1) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480429/718-10-50-2> + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsVestedAndExpectedToVestOutstandingWeightedAverageExercisePrice Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItem Type Balance Type: na Period Type: instant X - DefinitionWeighted average price at which option holders acquired shares when converting their stock options into shares. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(02) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480429/718-10-50-2> + Details Name: us-gaap_ShareBasedCompensationArrangementsByShareBasedPaymentAwardOptionsExercisesInPeriodWeightedAverageExercisePrice Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItem Type Balance Type: na Period Type: duration X - DefinitionWeighted average per share amount at which grantees can acquire shares of common stock by exercise of options. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(01) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480429/718-10-50-2> + Details Name: us-gaap_ShareBasedCompensationArrangementsByShareBasedPaymentAwardOptionsGrantsInPeriodWeightedAverageExercisePrice Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItem Type Balance Type: na Period Type: duration X - DefinitionWeighted average remaining contractual term for vested portions of options outstanding and currently exercisable or convertible, in 'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents the reported fact of one year, five months, and thirteen days. + ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef> -Name Accounting Standards Codification -Topic 718 -SubTopic 10 -Section 50 -Paragraph 2 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480429/718-10-50-2> + Details Name: us-gaap_SharebasedCompensationArrangementBySharebasedPaymentAwardOptionsExercisableWeightedAverageRemainingContractualTerm1 Namespace Prefix: us-gaap_ Data Type: xbrli:durationItem Type Balance Type: na Period Type: duration X - DefinitionWeighted average remaining contractual term for option awards outstanding, in 'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents the reported fact of one year, five months, and thirteen days. + ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef> -Topic 718 -SubTopic 10 -SubParagraph (e)(1) -Name Accounting Standards Codification -Paragraph 2 -Section 50 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480429/718-10-50-2> + Details Name: us-gaap_SharebasedCompensationArrangementBySharebasedPaymentAwardOptionsOutstandingWeightedAverageRemainingContractualTerm2 Namespace Prefix: us-gaap_ Data Type: xbrli:durationItem Type Balance Type: na Period Type: duration X - DefinitionWeighted average remaining contractual term for fully vested and expected to vest options outstanding, in 'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents reported fact of one year, five months, and thirteen days. Includes, but is not limited to, unvested options for which requisite service period has not been rendered but that are expected to vest based on achievement of performance condition, if forfeitures are recognized when they occur. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (e)(1) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480429/718-10-50-2> + Details Name: us-gaap_SharebasedCompensationArrangementBySharebasedPaymentAwardOptionsVestedAndExpectedToVestOutstandingWeightedAverageRemainingContractualTerm1 Namespace Prefix: us-gaap_ Data Type: xbrli:durationItem Type Balance Type: na Period Type: duration X - DefinitionNumber of share options (or share units) exercised during the current period. + ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef> -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147481112/505-10-50-2>Reference 2: <http://fasb.org/us-gaap/role/ref/legacyRef> -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1>Reference 3: <http://fasb.org/us-gaap/role/ref/legacyRef> -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1>Reference 4: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(02) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480429/718-10-50-2>Reference 5: <http://fasb.org/us-gaap/role/ref/legacyRef> -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480008/505-10-S99-1> + Details Name: us-gaap_StockIssuedDuringPeriodSharesStockOptionsExercised Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItem Type Balance Type: na Period Type: duration XML 69 R62.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Stockholders' Equity - Schedule of RSU Activity (Details) - Restricted Stock Units 6 Months Ended Jun. 30, 2024 \$ / shares shares Number of shares A Number of shares, Outstanding, beginning balance | shares 804,150 Number of shares, Granted | shares 397,237 Number of shares, Vested | shares (226,323) Number of shares, Forfeited | shares (82,009) Number of shares, Outstanding, ending balance | shares 893,055 Weighted average grant date fair value A Weighted average grant date fair value, Outstanding, beginning balance | \$ / shares \$ 41.36 Weighted average grant date fair value, Granted | \$ / shares 75.23 Weighted average grant date fair value, Vested | \$ / shares 37.11 Weighted average grant date fair value, Forfeited | \$ / shares 49.83 Weighted average grant date fair value, Outstanding, ending balance | \$ / shares 56.74 X - DefinitionThe number of equity-based payment instruments, excluding stock (or unit) options, that were forfeited during the reporting period. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii)(03) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480429/718-10-50-2> + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsForfeitedInPeriod Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItem Type Balance Type: na Period Type: duration X - DefinitionWeighted average fair value as of the grant date of equity-based award plans other than stock (unit) option plans that were not exercised or put into effect as a result of the occurrence of a terminating event. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii)(03) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480429/718-10-50-2> + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsForfeituresWeightedAverageGrantDateFairValue Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItem Type Balance Type: na Period Type: duration X - DefinitionThe number of grants made during the period on other than stock (or unit) option plans (for example, phantom stock or unit plan, stock or unit appreciation rights plan, performance target plan). + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii)(01) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480429/718-10-50-2> + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsGrantsInPeriod Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItem Type Balance Type: na Period Type: duration X - DefinitionThe weighted average fair value at grant date for nonvested equity-based awards issued during the period on other than stock (or unit) option plans (for example, phantom stock or unit plan, stock or unit appreciation rights plan, performance target plan). + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii)(01) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480429/718-10-50-2> + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsGrantsInPeriodWeightedAverageGrantDateFairValue Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItem Type Balance Type: na Period Type: duration X - DefinitionThe number of non-vested equity-based payment instruments, excluding stock (or unit) options, that validly exist and are outstanding as of the balance sheet date. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(i) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480429/718-10-50-2>Reference 2: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(ii) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480429/718-10-50-2> + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsNonvestedNumber Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItem Type Balance Type: na Period Type: instant X - DefinitionA roll forward is a reconciliation of a concept from the beginning of a period to the end of a period. + ReferencesNo definition available. + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsNonvestedRollForward Namespace Prefix: us-gaap_ Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration X - DefinitionPer share or unit weighted-average fair value of nonvested award under share-based payment arrangement. Excludes share and unit options. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(i) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480429/718-10-50-2>Reference 2: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(ii) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480429/718-10-50-2> + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsNonvestedWeightedAverageGrantDateFairValue Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItem Type Balance Type: na Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsNonvestedWeightedAverageGrantDateFairValueRollForward Namespace Prefix: us-gaap_ Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration X - DefinitionThe number of equity-based payment instruments, excluding stock (or unit) options, that vested during the reporting period. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii)(02) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480429/718-10-50-2> + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsVestedInPeriod Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItem Type Balance Type: na Period Type: duration X - DefinitionThe weighted average fair value as of grant date pertaining to an equity-based award plan other than a stock (or unit) option plan for which the grantee gained the right during the reporting period, by satisfying service and performance requirements, to receive or retain shares or units, other instruments, or cash in accordance with the terms of the arrangement. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii)(02) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480429/718-10-50-2> + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsVestedInPeriodWeightedAverageGrantDateFairValue Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItem Type Balance Type: na Period Type: duration X - Details Name: us-gaap_AwardTypeAxis=us-gaap_RestrictedStockUnitsRSUMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_IncomeStatementLocationAxis=us-gaap_GeneralAndAdministrativeExpenseMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 71 R64.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Warrants - Schedule of Warrant Activity (Details) 6 Months Ended Jun. 30, 2024 \$ / shares shares Warrants and Rights Note Disclosure [Abstract] A Warrants outstanding beginning balance | shares 79,220 Issued | shares 0 Exercised | shares 0 Warrants outstanding ending balance | shares 79,220 Weighted average exercise price, Beginning balance | \$ / shares \$ 56.8 Issued | \$ / shares 0 Exercised | \$ / shares 0 Weighted average exercise price, Ending balance | \$ / shares \$ 56.8 X - DefinitionNumber of warrants (or share units) exercised during the current period. + ReferencesNo definition available. + Details Name: axsm_WarrantsExercisedInPeriod Namespace Prefix: axsm_ Data Type: xbrli:sharesItem Type Balance Type: na Period Type: duration X - DefinitionWeighted average price at which warrants were exercised. + ReferencesNo definition available. + Details Name: axsm_WarrantsExercisedInPeriodWeightedAverageExercisePrice Namespace Prefix: axsm_ Data Type: dtr-types:perShareItem Type Balance Type: na Period Type: duration X - DefinitionNumber of warrants (or share units) issued during the current period. + ReferencesNo definition available. + Details Name: axsm_WarrantsIssuedInPeriod Namespace Prefix: axsm_ Data Type: xbrli:sharesItem Type Balance Type: na Period Type: duration X - DefinitionWeighted average price at which warrants were issued. + ReferencesNo definition available. + Details Name: axsm_WarrantsIssuedInPeriodWeightedAverageExercisePrice Namespace Prefix: axsm_ Data Type: dtr-types:perShareItem Type Balance Type: na Period Type: duration X - DefinitionExercise price per share or per unit of warrants or rights outstanding. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147481112/505-10-50-3> + Details Name: us-gaap_ClassOfWarrantOrRightExercisePriceOfWarrantsOrRights1 Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItem Type Balance Type: na Period Type: instant X - DefinitionNumber of warrants or rights outstanding. + ReferencesNo definition available. + Details Name: us-gaap_ClassOfWarrantOrRightOutstanding Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItem Type Balance Type: na Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_WarrantsAndRightsNoteDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration XML 72 R65.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Warrants - Additional Information (Details) \$ / shares in Units, \$ in Millions 6 Months Ended Jun. 30, 2024 USD (\$) Days \$ / shares shares Dec. 31, 2023 \$ / shares Class of Warrant or Right [Line Items] A Exercise price of warrants (in dollars per share) \$ 56.8 \$ 56.8 Warrants | Hercules Capital Inc | Third Amendment To Loan and Security Agreement A Class of Warrant or Right [Line Items] A Common stock to be issued if warrants are exercised (in shares) | shares 18,724 A Exercise price of warrants (in dollars per share) \$ 55.01 A Warrants | 2023 Warrants A Class of Warrant or Right [Line Items] A Common stock to be issued if warrants are exercised (in shares) | shares 9,700 A Exercise price of warrants (in dollars per share) \$ 77.31 A Fair value | \$ \$ 1.6 A Warrants | 2022 warrants A Class of Warrant or Right [Line Items] A Common stock to be issued if warrants are exercised (in shares) | shares 35,255 A Exercise price of warrants (in dollars per share) \$ 31.91 A Fair value | \$ \$ 0.8 A Warrants | 2020 warrants A Class of Warrant or Right [Line Items] A Common stock to be issued if warrants are exercised (in shares) | shares 15,541 A Exercise price of warrants (in dollars per share) \$ 80.43 A Trading days | Days 10 A Term of warrants (in years) 7 years A Fair value | \$ \$ 0.9 A X - DefinitionPeriod during which warrants are active, in 'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents the reported fact of one year, five months, and thirteen days. + ReferencesNo definition available. + Details Name: axsm_ClassOfWarrantOrRightTerm Namespace Prefix: axsm_ Data Type: xbrli:durationItem Type Balance Type: na Period Type: duration X - DefinitionThreshold period of specified consecutive trading days within which the volume weighted average price of company's common stock. + ReferencesNo definition available. + Details Name: axsm_ClassOfWarrantsOrRightsWeightedAveragePriceTradingDays Namespace Prefix: axsm_ Data Type: xbrli:integerItem Type Balance Type: na Period Type: duration X - DefinitionThe fair

of outstanding warrants. + ReferencesNo definition available. + Details Name: axsm_FairValueOfWarrants Namespace Prefix: axsm_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionExercise price per share or per unit of warrants or rights outstanding. + ReferencesReference 1:

-URI https://asc.fasb.org/1943274/2147480097/4/10-10-S99-1BReference 32: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 33: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 34: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 35: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1AReference 36: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 37: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section 599 -Paragraph 1 -Subparagraph (SX 210-9-04(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1 + Details Name: us-gaap NetIncomeLoss Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe average number of shares or units issued and outstanding that are used in calculating diluted EPS or earnings per unit (EPU), determined based on the timing of issuance of shares or units in the period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-16 + Details Name: us-gaap WeightedAverageNumberOfDilutedSharesOutstanding Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionNumber of [basic] shares or units, after adjustment for contingently issuable shares or units and other shares or units not deemed outstanding, determined by relating the portion of time within a reporting period that common shares or units have been outstanding to the total time in that period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-10 + Details Name: us-gaap WeightedAverageNumberOfSharesOutstandingBasic Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration XML 74 R67.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Net Loss per Common Share - Potentially Dilutive Securities (Details) - shares 6 Months Ended Jun. 30, 2024 Jun. 30, 2023 Antidilutive Securities Excluded From Computation Of Earnings Per Share [Line Items] Á Á Antidilutive securities 9,983,984 8,786,507 Stock Options Á Á Antidilutive Securities Excluded From Computation Of Earnings Per Share [Line Items] Á Á Antidilutive securities 8,938,807 7,930,579 Restricted Stock Units Á Á Antidilutive Securities Excluded From Computation Of Earnings Per Share [Line Items] Á Á Antidilutive securities 893,055 776,708 Warrants Á Á Antidilutive Securities Excluded From Computation Of Earnings Per Share [Line Items] Á Á Antidilutive securities 79,220 79,220 ESPP Á Á Antidilutive Securities Excluded From Computation Of Earnings Per Share [Line Items] Á Á Antidilutive Securities (including those issuable pursuant to contingent stock agreements) that could potentially dilute basic earnings per share (EPS) or earnings per unit (EPU) in the future that were not included in the computation of diluted EPS or EPU because to do so would increase EPS or EPU amounts or decrease loss per share or unit amounts for the period presented. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1 + Details Name: us-gaap AntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareAmount Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesNo definition available. + Details Name: us-gaap AntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - Details Name: us-gaap AntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareByAntidilutiveSecuritiesAxis=us-gaap_EmployeeStockOptionMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap AntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareByAntidilutiveSecuritiesAxis=us-gaap_RestrictedStockUnitsRSUMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap AntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareByAntidilutiveSecuritiesAxis=us-gaap_WarrantMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap AntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareByAntidilutiveSecuritiesAxis=us-gaap_EmployeeStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 75 R68.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Revenues - Schedule of Disaggregation of Product Sales (Details) - USD (\$) in Thousands 3 Months Ended 6 Months Ended Jun. 30, 2024 Jun. 30, 2023 Jun. 30, 2024 Jun. 30, 2023 Disaggregation of Revenue [Line Items] Á Á Á Revenue \$ 87,166 \$ 46,700 \$ 162,165 \$ 141,276 Product Sales Á Á Á Disaggregation of Revenue [Line Items] Á Á Á Revenue 86,520 46,017 160,616 74,586 Product Sales | United States Á Á Á Disaggregation of Revenue [Line Items] Á Á Á Revenue 85,444 45,418 158,715 72,344 Product Sales | Outside of the United States Á Á Á Disaggregation of Revenue [Line Items] Á Á Á Revenue 1,076 599 1,901 2,242 Product Sales | Auvelity Á Á Á Disaggregation of Revenue [Line Items] Á Á Á Revenue 65,025 27,643 118,420 43,393 Product Sales | Sunosi Á Á Á Disaggregation of Revenue [Line Items] Á Á Á Revenue 21,495 18,374 42,196 31,193 License Revenue Á Á Á Disaggregation of Revenue [Line Items] Á Á Á Revenue Á Á Á 65,735 License Revenue | Sunosi Á Á Á Disaggregation of Revenue [Line Items] Á Á Á Revenue Á Á Á 65,735 License Revenue Á Á Á Disaggregation of Revenue [Line Items] Á Á Á Revenue 646 683 1,549 955 Royalty Revenue | Outside of the United States Á Á Á Disaggregation of Revenue [Line Items] Á Á Á Revenue 646 683 1,549 955 Royalty Revenue | Sunosi Á Á Á Disaggregation of Revenue [Line Items] Á Á Á Revenue \$ 646 \$ 683 \$ 1,549 \$ 955 X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-5Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479777/606-10-55-91Reference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479777/606-10-55-91Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479777/606-10-55-91Reference 5: http://www.xbrl.org/2003/role/exampleRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479777/606-10-55-91Reference 6: http://www.xbrl.org/2003/role/exampleRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479777/606-10-55-91Reference 7: http://www.xbrl.org/2003/role/exampleRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479777/606-10-55-91Reference 8: http://www.xbrl.org/2003/role/exampleRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479777/606-10-55-91 + Details Name: us-gaap DisaggregationOfRevenueLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount, excluding tax collected from customer, of revenue from satisfaction of performance obligation by transferring promised good or service to customer. Tax collected from customer is tax assessed by governmental authority that is both imposed on and concurrent with specific revenue-producing transaction, including, but not limited to, sales, use, value added and excise. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 41 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-41Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 4: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 5: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 924 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1 -Subparagraph (SAB Topic 11.L) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479941/924-10-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-5Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 42 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-42Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-40Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-4 + Details Name: us-gaap RevenueFromContractWithCustomerExcludingAssessedTax Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - Details Name: srt_ProductOrServiceAxis=us-gaap_ProductMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_StatementGeographicalAxis=country US Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_StatementGeographicalAxis=country US Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_CounterpartyNameAxis=axsm_AuvelityMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_CounterpartyNameAxis=axsm_SunosiMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_ProductOrServiceAxis=us-gaap_LicenseMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_ProductOrServiceAxis=us-gaap_RoyaltyMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 76 R69.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Revenues - Additional Information (Details) - USD (\$) in Millions 6 Months Ended Jun. 30, 2024 Jun. 30, 2023 Sunosi [Member] Á Á Contract With Customer Liability [Line Items] Á Á Prior period adjustments for product sales resulting from changes in estimates \$ 0.6 \$ 0.1 Auvelity [Member] Á Á Contract With Customer Liability [Line Items] Á Á Prior period adjustments for product sales resulting from changes in estimates \$ 1.1 \$ 0.8 X - DefinitionContract with customer liability. + ReferencesNo definition available. + Details Name: axsm ContractWithCustomerLiabilityLineItems Namespace Prefix: axsm_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionPrior period adjustments for product sales resulting from changes in estimates. + ReferencesNo definition available. + Details Name: axsm_PriorPeriodAdjustmentsForProductSalesResultingFromChangesInEstimates Namespace Prefix: axsm_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - Details Name: srt_CounterpartyNameAxis=axsm_SunosiMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_CounterpartyNameAxis=axsm_AuvelityMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 77 R70.htm IDEA: XBRL DOCUMENT v3.24.2.u1 License Agreements - Additional Information (Details) \$ / shares in Units, á, ~ in Millions 1 Months Ended 3 Months Ended 6 Months Ended 12 Months Ended Jan. 31, 2020 USD (\$) \$ / shares shares Jun. 30, 2024 USD (\$) shares Jun. 30, 2023 USD (\$) Jun. 30, 2024 USD (\$) Item shares Jun. 30, 2024 EUR (á, ~) Item Jun. 30, 2023 USD (\$) Dec. 31, 2020 USD (\$) Dec. 31, 2012 Item Dec. 31, 2023 USD (\$) shares Jan. 09, 2020 USD (\$) \$ / shares Research And Development Arrangement Contract To Perform For Others [Line Items] Á Á Á Á Á Á Á Number of common shares | shares Á 47,801,578 Á 47,801,578 Á 47,351,363 Á Value of common stock Á \$ 5,000 Á \$ 5,000 Á Á \$ 5,000 Á Research and development expense recognized Á 49,853,000 Á 20,581,000 Á 86,683,000 Á \$ 38,374,000 Á Á Á License Agreement | Antecip Á Á Á Á Á Á Á Research And Development Arrangement Contract To Perform For Others [Line Items] Á Á Á Á Á Á Á Milestone payments or royalties Á 2,000,000 800,000 3,600,000 Á 1,300,000 Á Á Á Accrued royalty payments Á 3,600,000 1,300,000 Á 3,600,000 Á 1,300,000 Á Á Á Number of exclusive license agreements | Item Á Á Á 3 Á 3 Á License agreement royalty as a percent of net sales Á Á 3.00% 3.00% Á Á Á License agreement royalty, maximum reduction percent as a result of required third party payments Á Á Á Á Á 50.00% Á Á License agreement term, from first commercial sale Á Á Á Á Á Á Á 10 years Á Á License Agreement | Antecip | AXS-05 Á Á Á Á Á Á Á Research And Development Arrangement Contract To Perform For Others [Line Items] Á Á Á Á Á Á Á License agreement royalty as a percent of net sales Á Á Á Á Á 3.00% Á Á License Agreement | Antecip | Other Two Products | Minimum Á Á Á Á Á Á Á Research And Development Arrangement Contract To Perform For Others [Line Items] Á Á Á Á Á Á Á License agreement royalty as a percent of net sales Á Á Á Á Á Á Á 1.50% Á Á License Agreement | Antecip | Other Two Products | Maximum Á Á Á Á Á Á Á Research And Development Arrangement Contract To Perform For Others [Line Items] Á Á Á Á Á Á Á License agreement royalty as a percent of net sales Á Á Á Á Á Á Á 4.50% Á Á Pfizer Inc | License Agreement Á Á Á Á Á Á Á Research And Development Arrangement Contract To Perform For Others [Line Items] Á Á Á Á Á Á Á Number of common shares | shares 82,019 Á Á Á Á Á Á Á Value of common stock \$ 8,000,000 Á Á Á Á Á Á Á Prior trading days 10 days Á Á Á Á Á Á Á Share price | \$ / shares \$ 97.54 Á Á Á Á Á Á Á Upfront cash payment \$ 3,000,000 Á Á Á Á Á Á Á Fair value share price | \$ / shares Á Á Á Á Á Á Á \$ 87.24 Fair value of common stock Á Á Á Á Á Á Á \$ 7,200,000 Research and development expense recognized Á Á Á Á Á Á Á \$ 10,200,000 Á Á Á Future milestone payments Á 323,000,000 Á 323,000,000 Á Á Á Milestone payments or royalties Á 0 Á 0 Á 0 Á Á Á Á Á Á Á Á Á Á Á Á Á Research And Development Arrangement Contract To Perform For Others [Line Items] Á Á Á Á Á Á Á Non-refundable upfront payment received Á Á 65,700,000 Á, ~ 62.0 Á Á Á Á Á Á Á Eligible to receive sales-based and other milestones | á, ~ Á Á Á Á á, ~ 94.5 Á Á Á Royalty revenue Á \$ 600,000 700,000 1,500,000 Á 1,000,000 Á Á Á Other development and sales based milestones recognized Á Á \$ 0 Á \$ 0 Á Á X - DefinitionThe amount of future payments payable under the collaboration arrangement. + ReferencesNo definition available. + Details Name: axsm_CollaborationArrangementFuturePotentialPayments Namespace Prefix: axsm_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionFair value of issued nonredeemable common stock (or common stock redeemable solely at the option of the issuer). This item includes treasury stock repurchased by the entity. Note: elements for number of nonredeemable common shares, par value and other disclosure concepts are in another section within stockholders' equity. + ReferencesNo definition available. + Details Name: axsm_CommonStockFairValue Namespace Prefix: axsm_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionRepresents the consecutive number of trading days to determine the weighted average price per share of ordinary shares. + ReferencesNo definition available. + Details Name: axsm_ConsecutiveTradingDays Namespace Prefix: axsm_ Data Type: xbrli:durationItemType Balance Type: na Period Type: duration X - DefinitionEligible to receive sales-based and other milestones + ReferencesNo definition available. + Details Name: axsm_EligibleToReceiveSalesBasedAndOtherMilestones Namespace Prefix: axsm_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionInitial Cash Payment Per Collaboration Agreement. + ReferencesNo definition available. + Details Name: axsm_InitialCashPaymentPerCollaborationAgreement Namespace Prefix:

asmxsm_monetaryItemType Balance Type: credit Period Type: duration X - DefinitionRepresents the maximum reduction percentage of the royalty due as a result of required payments to third parties. + ReferencesNo definition available. + Details Name: asxm_LicenseAgreementRoyaltyDueMaximumReductionPercentageAsResultOfRequiredPaymentsToThirdParties Namespace Prefix: asxm_Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionRepresents the percentage of net sales of products containing the licensed products, due to licensor as a royalty. + ReferencesNo definition available. + Details Name: asxm_LicenseAgreementRoyaltyDuePercentageOfNetSales Namespace Prefix: asxm_Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionPeriod of time, after the first commercial sale of the applicable product, the license agreement is valid, in PnYnMnDnTnHnMnS format, for example, "P1Y5M13D" represents the reported fact of one year, five months, and thirteen days. + ReferencesNo definition available. + Details Name: asxm_LicenseAgreementTerm Namespace Prefix: asxm_Data Type: xbrli:durationItemType Balance Type: na Period Type: duration X - DefinitionRepresents the number of license agreements the Company has entered into. + ReferencesNo definition available. + Details Name: asxm_NumberOfLicenseAgreements Namespace Prefix: asxm_Data Type: xbrli:integerItemType Balance Type: na Period Type: duration X - DefinitionOther development and sales based milestones recognized. + ReferencesNo definition available. + Details Name: asxm_OtherDevelopmentAndSalesBasedMilestonesRecognized Namespace Prefix: asxm_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionRoyalty Revenue + ReferencesNo definition available. + Details Name: asxm_RoyaltyRevenue Namespace Prefix: asxm_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionFair value price of a single share of a number of saleable stocks of a company + ReferencesNo definition available. + Details Name: asxm_SharePriceFairValue Namespace Prefix: asxm_Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - Definitionupfront payment received + ReferencesNo definition available. + Details Name: asxm_UprfrontPaymentReceived Namespace Prefix: asxm_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionCarrying value as of the balance sheet date of obligations incurred through that date and payable for royalties. + ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 942-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210.9-03\(15\)\(5\)\)](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 942-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210.9-03(15)(5))) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147478546/942-210-S99-1> + Details Name: us-gaap_AccruedRoyaltiesCurrentAndNoncurrent Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionTotal number of common shares of an entity that have been sold or granted to shareholders (includes common shares that were issued, repurchased and remain in the treasury). These shares represent capital invested by the firm's shareholders and owners, and may be all or only a portion of the number of shares authorized. Shares issued include shares outstanding and shares held in the treasury. + ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210.5-02\(29\)\)](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210.5-02(29))) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1> + Details Name: us-gaap_CommonStockSharesIssued Namespace Prefix: us-gaap_Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionAggregate par or stated value of issued nonredeemable common stock (or common stock redeemable solely at the option of the issuer). This item includes treasury stock repurchased by the entity. Note: elements for number of nonredeemable common shares, par value and other disclosure concepts are in another section within stockholders' equity. + ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210.5-02\(29\)\)](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210.5-02(29))) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1>Reference 2: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 944-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210.7-03\(a\)\(22\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 944-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210.7-03(a)(22))) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147478777/944-210-S99-1> + Details Name: us-gaap_CommonStockValue Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 730-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph \(a\)-Publisher FASB -URI https://asc.fasb.org/1943274/2147483041/730-20-50-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 730-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph (a)-Publisher FASB -URI https://asc.fasb.org/1943274/2147483041/730-20-50-1)Reference 2: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 730-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph \(b\)-Publisher FASB -URI https://asc.fasb.org/1943274/2147483041/730-20-50-1](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 730-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph (b)-Publisher FASB -URI https://asc.fasb.org/1943274/2147483041/730-20-50-1) + Details Name: us-gaap_ResearchAndDevelopmentArrangementContractToPerformForOthersLineItems Namespace Prefix: us-gaap_Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of expense for research and development. Includes, but is not limited to, cost for computer software product to be sold, leased, or otherwise marketed and writteoff of research and development assets acquired in transaction other than business combination or joint venture formation or both. Excludes write-down of intangible asset acquired in business combination or from joint venture formation or both, used in research and development activity. + ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 48-Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-48>Reference 2: <http://www.xbrl.org/2003/role/disclosureRef-Topic 985-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 2-Publisher FASB -URI https://asc.fasb.org/1943274/2147481283/985-20-50-2>Reference 3: <http://www.xbrl.org/2003/role/disclosureRef-Topic 730-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 1-Publisher FASB -URI https://asc.fasb.org/1943274/2147482916/730-10-50-1>Reference 4: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic 912-SubTopic 730-Name Accounting Standards Codification-Section 25-Paragraph 1-Publisher FASB -URI https://asc.fasb.org/1943274/2147479532/912-730-25-1> + Details Name: us-gaap_ResearchAndDevelopmentExpense Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of expense related to royalty payments under a contractual arrangement such as payment for mineral and drilling rights and use of technology or intellectual property. + ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 2-Subparagraph \(SX 210.5-03\(3\)\)](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 2-Subparagraph (SX 210.5-03(3))) -Publisher FASB -URI <https://asc.fasb.org/1943274/21474783621/220-10-S99-2> + Details Name: us-gaap_RoyaltyExpense Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionPrice of a single share of a number of saleable stocks of a company. + ReferencesNo definition available. + Details Name: us-gaap_SharePrice Namespace Prefix: us-gaap_Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - Details Name: us-gaap_ResearchAndDevelopmentArrangementContractToPerformForOthersByTypeAxis=us-gaap_LicenseAgreementTermsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_RelatedPartyTransactionsByRelatedPartyAxis=us-gaap_AffiliatedEntityMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_ProductOrServiceAxis=asxm_Axs05Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_ProductOrServiceAxis=asxm_OtherTwoProductsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_RangeAxis=srt_MinimumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_RangeAxis=srt_MaximumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_CounterpartyNameAxis=asxm_PfizerIncMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_CounterpartyNameAxis=asxm_PharmanovaMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 78 R71.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Royalty Agreements - Additional Information (Details) - Sunosi | in Millions 6 Months Ended Mar. 25, 2022 USD (\$) Jun. 30, 2024 USD (\$) Market Research and Development Arrangement, Contract to Perform for Others [Line Items] | Market | A | Number of Asian markets | Market | A | 12 Revenue milestones | 165 | 165 Development milestones | 1 | 1 | X - DefinitionDevelopment milestones. + ReferencesNo

https://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1 -Subparagraph (SAB Topic 6.1.7) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479360/740-10-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-8Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-10Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section 599 -Paragraph 1 -Subparagraph (SX 210.7-04(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Subparagraph (a) -SubTopic 20 -Topic 740 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482659/740-20-45-2Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 599 -Paragraph 1 -Subparagraph (SX 210.4-08(h)) -SubTopic 10 -Topic 235 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1 + Details Name: us-gaap_IncomeTaxExpenseBenefit Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe total amount of unrecognized tax benefits that, if recognized, would affect the effective tax rate. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 217 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482663/740-10-55-217Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 15A -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-15A + Details Name: us-gaap_UnrecognizedTaxBenefitsThatWouldImpactEffectiveTaxRate Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant XML R1 R74.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Related Party Transactions - Additional Information (Details) \$ in Millions 1 Months Ended 3 Months Ended 6 Months Ended 12 Months Ended Jan. 31, 2012 shares Jun. 30, 2024 USD (\$) Jun. 30, 2023 USD (\$) Jun. 30, 2024 USD (\$) Item Jun. 30, 2023 USD (\$) Dec. 31, 2012 Item Auvelity Á Á Á Á Á Related Party Transaction [Line Items] Á Á Á Á Á License agreement royalty as a percent of net sales Á Á Á 3.00% Á Á Á Antecip Á Á Á Á Á Related Party Transaction [Line Items] Á Á Á Á Á Shares issued / shares / 7,344,500 Á Á Á Á Á Antecip / License Agreement Á Á Á Á Á Related Party Transaction [Line Items] Á Á Á Á Á Royalty expense / \$ Á Á 2.0 \$ 0.8 \$ 3.6 \$ 1.3 Á License agreement royalty as a percent of net sales Á Á Á 3.00% Á Á Á Number of exclusive license agreements / Item Á Á Á 3 Á 3 Antecip / Auvelity / License Agreement Á Á Á Á Á Related Party Transaction [Line Items] Á Á Á Á Á License agreement royalty as a percent of net sales Á 3.00% 3.00% 3.00% 3.00% Á Minimum / Dr. Tabuteau Á Á Á Á Á Related Party Transaction [Line Items] Á Á Á Á Á Beneficial ownership percentage Á 5.00% Á 5.00% Á Á X - DefinitionBeneficial ownership percentage. + ReferencesNo definition available. + Details Name: axsm_BeneficialOwnershipPercentage Namespace Prefix: axsm_Data Type: dtr-types:percentItemType Balance Type: na Period Type: instant X - DefinitionRepresents the percentage of net sales of products containing the licensed products, due to licensor as a royalty. + ReferencesNo definition available. + Details Name: axsm_LicenseAgreementRoyaltyDuePercentageOfNetSales Namespace Prefix: axsm_Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionRepresents the percent of license agreements the Company has entered into. + ReferencesNo definition available. + Details Name: axsm_NumberOfLicenseAgreements Namespace Prefix: axsm_Data Type: xbrli:integerItemType Balance Type: na Period Type: duration X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 13 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481990/310-10-45-13Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section 599 -Paragraph 1 -Subparagraph (SX 210.6-07(2)(c)(2)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section 599 -Paragraph 1 -Subparagraph (SX 210.6-07(2)(c)(2)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section 599 -Paragraph 1 -Subparagraph (SX 210.6-07(2)(g)(3)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-1 + Details Name: us-gaap_RelatedPartyTransactionLineItems Namespace Prefix: us-gaap_Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of expense related to royalty payments under a contractual arrangement such as payment for mineral and drilling rights and use of technology or intellectual property. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 2 -Subparagraph (SX 210.5-03(3)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2 + Details Name: us-gaap_RoyaltyExpense Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionNumber of new stock issued during the period. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 505 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478448/946-505-50-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section 599 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/220-S99-3Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 3 -Subparagraph (SX 210.6-03(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479886/946-10-S99-3Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1 + Details Name: us-gaap_StockIssuedDuringPeriodSharesNewIssues Namespace Prefix: us-gaap_Data Type: xbrli:sharesItemBalance Type: na Period Type: duration X - Details Name: srt_CounterpartyNameAxis=axsm_AuvelityMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_RelatedPartyTransactionsByRelatedPartyAxis=srt_AffiliatedEntityMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_ResearchAndDevelopmentArrangementContractToPerformForOthersByTypeAxis=us-gaap_LicenseAgreementTermsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_RangeAxis=srt_MinimumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_RelatedPartyTransactionsByRelatedPartyAxis=srt_ChiefExecutiveOfficerMember Namespace Prefix: Data Type: na Balance Type: Period Type: EXCEL 82 Financial Report.xlsx IDEA: XBRL DOCUMENT begin 644 Financial Report.xlsx M45!#10 (-D!04UB @+ \$ 0.9EJCA4)0< ,0871P+GAM M,\$5.0/L,1\$!QO;=IP4B0-12L+(/>QLOD&1#LD) OCG:CVX>;QA&WPIG M*N#1&B&V&S_ C(I) (-174BK9,7e-N)=HiG5 *OOGDK7A.YN]Q< &4GP24A.7J=OUIR,6A)0< #6MI7E+ P04 M * #8&G59J;JG%MA+ P04 M * #018UIR;WIS+V-O&ULS9+ / M2LOP(=? 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^RQT_YKQ9$77>|4ME5Z9+9-LV1=0>K-XJ$7$AZ(F|<F%6&F^|MKTB?<^<N&B^|MH1@T^%>|<PT=>=<E?P^>#0P-B(P-ET^>W|F7;17 M8%<3>X;U&^
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=>#<1^<E M+RA<4UU5
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Arial, sans-serif; text-align: left; } .report-pl { text-align: left; vertical-align: top; white-space: normal; width: 200px; white-space: normal; /* word-wrap: break-word; */ } .report td.pl.a { cursor: pointer; display: block; width: 200px; overflow: hidden; } .report td.pl div.a { width: 200px; } .report td.pl a:hover { background-color: #ffc; } /* Header rows... */ .report tr.rh { background-color: #aef; color: black; font-weight: bold; } /* Calendars... */ .report.rc { background-color: #f0f0f0; } /* Even rows... */ .report.re, .report.reu { background-color: #def; } .report.reu td { border-bottom: 1px solid black; } /* Odd rows... */ .report.ro, .report.ro, .report.ro { background-color: white; } .report.rou td { border-bottom: 1px solid black; } .report.rou table td, .report.reu table td { border-bottom: 0px solid black; } /* styles for footnote marker */ .report.fn { white-space: nowrap; } /* styles for numeric types */ .report.num, .report.nump { text-align: right; white-space: nowrap; } .report.nump { padding-left: 2em; } .report.nump { padding: 0px 0.4em 0px 2em; } /* styles for text types */ .report.text { text-align: left; white-space: normal; } .report.text.big { margin-bottom: 1em; width: 17em; } .report.text.more { display: none; } .report.text.note { font-style: italic; font-weight: bold; } .report.text.small { width: 10em; } .report.sup { font-style: italic; } .report.outerFootnotes { font-size: 1em; } /* XML-86 Filing Summary.xml IDEA: XBRL DOCUMENT 3.24.2.u1.html2273711false840false13 falsefalseR1.htm100000 - 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Other information that may be disclosed includes (1) the nature of any restrictions on the entity's use of its cash and cash equivalents, (2) whether the entity's cash and cash equivalents are insured or expose the entity to credit risk, (3) the classification of any negative balance accounts (overdrafts), and (4) the carrying basis of cash equivalents (for example, at cost) and whether the carrying amount of cash equivalents approximates fair value." }}, "auth_ref": [{"r16": ""}], "us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalents": {"xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalents", "crdr": "debit", "presentation": [{"http://axsome.com/20240630/taxonomy/role/Role_StatementConsolidatedStatementsOfCashFlows}], "lang": {"en-us": {"role": {"totalLabel": "Cash, Cash Equivalents, Restricted Cash and Restricted Cash Equivalents, Total", "label": "Cash, Cash Equivalents, Restricted Cash, and Restricted Cash Equivalents", "periodStartLabel": "Cash at beginning of period", "periodEndLabel": "Cash at end of period", "documentation": "Amount of cash and cash equivalents, and cash and cash equivalents restricted to withdrawal or usage. Excludes amount for disposal group and discontinued operations. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates." }}, "auth_ref": [{"r15": "r79", "r154": ""}], "us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsPeriodIncreaseDecreaseIncludingExchangeRateEffect": {"xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsPeriodIncreaseDecreaseIncludingExchangeRateEffect", "crdr": "debit", "presentation": [{"http://axsome.com/20240630/taxonomy/role/Role_StatementConsolidatedStatementsOfCashFlows}], "lang": {"en-us": {"role": {"label": "Cash, Cash Equivalents, Restricted Cash, and Restricted Cash Equivalents, Period Increase (Decrease), Including Exchange Rate Effect", "totalLabel": "Net (decrease) increase in cash", "documentation": "Amount of increase (decrease) in cash, cash equivalents, and cash and cash equivalents restricted to withdrawal or usage; including effect from exchange rate change. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates." }}, "auth_ref": [{"r0": "r79"}]}, "us-gaap_CashEquivalentsAtCarryingValue": {"xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CashEquivalentsAtCarryingValue", "crdr": "debit", "presentation": [{"http://axsome.com/20240630/taxonomy/role/Role_DisclosureSummaryOfSignificantAccountingPoliciesAdditionalInformationDetails}], "lang": {"en-us": {"role": {"label": "Cash Equivalents, At Carrying Value", "terseLabel": "Cash Equivalents", "totalLabel": "Cash Equivalents, At Carrying Value, Total", "documentation": "Amount of short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. Excludes cash and cash equivalents within disposal group and discontinued operation." }}, "auth_ref": [{"r843": "r962"}]}, "us-gaap_CashEquivalentsAtCarryingValueAbstract": {"xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CashEquivalentsAtCarryingValueAbstract", "presentation": [{"http://axsome.com/20240630/taxonomy/role/Role_DisclosureSummaryOfSignificantAccountingPoliciesAdditionalInformationDetails}], "lang": {"en-us": {"role": {"label": "Cash Equivalents, At Carrying Value [Abstract]", "terseLabel": "Cash Equivalents"}}, "auth_ref": []}], "us-gaap_CashFlowNoncashInvestingAndFinancingActivitiesDisclosureAbstract": {"xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CashFlowNoncashInvestingAndFinancingActivitiesDisclosureAbstract", "presentation": [{"http://axsome.com/20240630/taxonomy/role/Role_StatementConsolidatedStatementsOfCashFlows}], "lang": {"en-us": {"role": {"label": "Cash Flow, Noncash Investing and 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For example, but not limited to, 500,000 warrants may be converted into 1,000,000 shares."}}, "auth_ref": [{"r295": ""}], "us-gaap_ClassOfWarrantOrRightOutstanding": {"xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ClassOfWarrantOrRightOutstanding", "presentation": [{"http://axsome.com/20240630/taxonomy/role/DisclosureWarrantsScheduleOfWarrantActivityDetails}], "lang": {"en-us": {"role": {"label": "Class of Warrant or Right, Outstanding", "periodStartLabel": "Warrants outstanding beginning balance", "periodEndLabel": "Warrants outstanding ending balance", "documentation": "Number of warrants or rights outstanding."}}, "auth_ref": []}], "us-gaap_ClassOfWarrantOrRightTable": {"xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ClassOfWarrantOrRightTable", "presentation": [{"http://axsome.com/20240630/taxonomy/role/DisclosureWarrantsAdditionalInformationDetails}], "lang": {"en-us": {"role": {"label": "Class of Warrant or Right [Table]", "documentation": "Disclosure of information about warrant or right issued that give holder right to purchase security from issuer at specific price within certain time frame."}}, "auth_ref": [{"r29": ""}], "axsm_ClassOfWarrantOrRightTerm": {"xbrltype": "durationItemType", "nsuri": "http://axsome.com/20240630", "localname": "ClassOfWarrantOrRightTerm", "presentation": [{"http://axsome.com/20240630/taxonomy/role/DisclosureWarrantsAdditionalInformationDetails}], "lang": {"en-us": {"role": {"documentation": "Period during which warrants are active, in 'PnYnMndTnHnMs' format, for example, 'PY5M13D' represents the reported fact of one year, five months, and thirteen days.", "label": "Class Of Warrant Or Right Term", "terseLabel": "Term of warrants (in years)"}}}, "auth_ref": []}], "axsm_ClassOfWarrantsOrRightsWeightedAveragePriceTradingDays": {"xbrltype": "integerItemType", "nsuri": "http://axsome.com/20240630", "localname": "ClassOfWarrantsOrRightsWeightedAveragePriceTradingDays", "presentation": [{"http://axsome.com/20240630/taxonomy/role/DisclosureWarrantsAdditionalInformationDetails}], "lang": {"en-us": {"role": {"documentation": "Threshold period of specified consecutive trading days within which the volume weighted average price of company's common stock.", "label": "Class Of Warrants Or Rights Weighted Average Price Trading Days", "terseLabel": "Trading days"}}, "auth_ref": []}], "ecd_CoSelectedMeasureAmt": {"xbrltype": "decimalItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "CoSelectedMeasureAmt", "presentation": [{"http://xbrl.sec.gov/ecd/role/PvpDisclosure}], "lang": {"en-us": {"role": {"label": "Company Selected Measure Amount", "terseLabel": "Company Selected Measure Amount"}}, "auth_ref": [{"r795": ""}], "ecd_CoSelectedMeasureName": {"xbrltype`

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These shares represent capital invested by the firm's shareholders and owners, and may be all or only a portion of the number of shares authorized. Shares issued include shares outstanding and shares held in the treasury."}}}, "auth_ref": {"r58"}}, "us-gaap_CommonStockSharesOutstanding": {"xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CommonStockSharesOutstanding", "presentation": {"http://axsome.com/20240630/taxonomy/role/Role_StatementConsolidatedBalanceSheetsParenthetical"}}, "lang": {"en-us": {"role": {"label": "Common Stock, Shares, Outstanding", "terseLabel": "Common stock, shares outstanding", "periodStartLabel": "Common Stock, Shares, Outstanding, Beginning Balance", "periodEndLabel": "Common Stock, Shares, Outstanding, Ending Balance", "documentation": "Number of shares of common stock outstanding. 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This item includes treasury stock repurchased by the entity. Note: elements for number of nonredeemable common shares, par value and other disclosure concepts are in another section within stockholders' equity."}}}, "auth_ref": {"r58", "r525", "r719"}}, "ecd_CompActuallyPaidVsCoSelectedMeasureTextBlock": {"xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "CompActuallyPaidVsCoSelectedMeasureTextBlock", "presentation": {"http://xbrl.sec.gov/ecd/role/PvpDisclosure"}, "lang": {"en-us": {"role": {"label": "Compensation Actually Paid vs. Company Selected Measure [Text Block]", "terseLabel": "Compensation Actually Paid vs. Company Selected Measure"}}, "auth_ref": {"r800"}}, "ecd_CompActuallyPaidVsNetIncomeTextBlock": {"xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "CompActuallyPaidVsNetIncomeTextBlock", "presentation": {"http://xbrl.sec.gov/ecd/role/PvpDisclosure"}, "lang": {"en-us": {"role": {"label": "Compensation Actually Paid vs. Net Income [Text Block]", "terseLabel": 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or benchmark, identifies the type (for example, asset, liability, net assets, geographic, customer, employees, supplier, lender) of the concentration."}}}, "auth_ref": {"r19", "r20", "r39", "r40", "r210", "r644"}}, "axsm_ConsecutiveTradingDays": {"xbrltype": "durationItemType", "nsuri": "http://axsome.com/20240630", "localname": "ConsecutiveTradingDays", "presentation": {"http://axsome.com/20240630/taxonomy/role/Role_DisclosureLicenseAgreementsAdditionalInformationDetails"}, "lang": {"en-us": {"role": {"documentation": "Represents the consecutive number of trading days to determine the weighted average price per share of ordinary shares.", "label": "Consecutive Trading Days", "terseLabel": "Prior trading days"}}, "auth_ref": {}}, "us-gaap_ContingentConsiderationByTypeAxis": {"xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ContingentConsiderationByTypeAxis", "presentation": 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Includes production and non-production related depreciation." } } } }, "auth_ref": { "r3", "r24" } }, "axsm_DevelopmentMilestones": { "xbrltype": "monetaryItemType", "nsuri": "http://axsome.com/20240630/", "localname": "DevelopmentMilestones", "crdr": "credit", "presentation": { "http://axsome.com/20240630/taxonomy/role/DisclosureRoyaltyAgreementsAdditionalInformationDetails", "http://axsome.com/20240630/taxonomy/role/Role_DisclosureSummaryOfSignificantAccountingPoliciesAdditionalInformationDetails", "lang": { "en-us": { "role": { "documentation": "Development milestones.", "label": "Development Milestones", "terseLabel": "Development milestones" } } } }, "auth_ref": [] }, "us-gaap_DisaggregationOfRevenueAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024/", "localname": "DisaggregationOfRevenueAbstract", "presentation": { "http://axsome.com/20240630/taxonomy/role/Role_DisclosureSummaryOfSignificantAccountingPoliciesAdditionalInformationDetails", "lang": { "en-us": { "role": { "terseLabel": "Revenue Recognition", "label": "Disaggregation of Revenue [Abstract]" } } } }, "auth_ref": [] }, "us-gaap_DisaggregationOfRevenueLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024/", "localname": "DisaggregationOfRevenueLineItems", "presentation": { "http://axsome.com/20240630/taxonomy/role/DisclosureRevenuesScheduleOfDisaggregationOfProductSalesDetails", "lang": { "en-us": { "role": { "label": "Disaggregation of Revenue [Line Items]", "documentation": "Line items represent financial concepts included in a table. 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For a 2006 annual report, which may also provide financial information from prior periods, fiscal 2006 should be given as the fiscal year focus. Example: 2006." } } } }, "auth_ref": [] }, "dei_DocumentPeriodEndDate": { "xbrltype": "dateItemType", "nsuri": "http://xbrl.sec.gov/dei/2024/", "localname": "DocumentPeriodEndDate", "presentation": { "http://axsome.com/20240630/taxonomy/role/Role_DocumentDocumentAndEntityInformation", "lang": { "en-us": { "role": { "label": "Document Period End Date", "terseLabel": "Document Period End Date", "documentation": "For the EDGAR submission types of Form 8-K: the date of the report, the date of the earliest event reported; for the EDGAR submission types of Form N-1A: the filing date; for all other submission types: the end of the reporting or transition period. The format of the date is YYYY-MM-DD." } } } }, "auth_ref": [] }, "dei_DocumentQuarterlyReport": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/dei/2024/", "localname": "DocumentQuarterlyReport", "presentation": { "http://axsome.com/20240630/taxonomy/role/Role_DocumentDocumentAndEntityInformation", "lang": { "en-us": { "role": { "label": "Document Quarterly Report", "terseLabel": "Document Quarterly Report", "documentation": "Boolean flag that is true only for a form used as an quarterly report." } } } }, "auth_ref": { "r750" } }, "dei_DocumentTransitionReport": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/dei/2024/", "localname": "DocumentTransitionReport", "presentation": { "http://axsome.com/20240630/taxonomy/role/Role_DocumentDocumentAndEntityInformation", "lang": { "en-us": { "role": { "label": "Document Transition Report", "terseLabel": "Document Transition Report", "documentation": "Boolean flag that is true only for a form used as a transition report." } } } }, "auth_ref": { "r782" } }, "dei_DocumentType": { "xbrltype": "submissionTypeItemType", "nsuri": "http://xbrl.sec.gov/dei/2024/", "localname": "DocumentType", "presentation": { "http://axsome.com/20240630/taxonomy/role/Role_DocumentDocumentAndEntityInformation", "lang": { "en-us": { "role": { "label": "Document Type", "terseLabel": "Document Type", "documentation": "The type of document being provided (such as 10-K, 10-Q, 485BPOs, etc). 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Addresses all significant policy factors, including any antidilutive items that have been excluded from the computation and takes into account stock dividends, splits and reverse splits that occur after the balance sheet date of the latest reporting period but before the issuance of the financial statements." } } } }, "auth_ref": { "r17", "r18", "r186" } }, "us-gaap_EarningsPerShareTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024/", "localname": "EarningsPerShareTextBlock", "presentation": { "http://axsome.com/20240630/taxonomy/role/Role_DisclosureNetLossPerCommonShareComputationOfBasicAndDilutedNetLossPerCommonShareDetails", "http://axsome.com/20240630/taxonomy/role/Role_StatementConsolidatedStatementsOfOperations", "lang": { "en-us": { "role": { "terseLabel": "Net loss per common share, basic", "label": "Earnings Per Share, Basic", "totalLabel": "Earnings Per Share, Basic, Total", "documentation": "The amount of net income (loss) for the period per each share of common stock or unit outstanding during the reporting period." } } } }, "auth_ref": { "r147", "r167", "r168", "r169", "r170", "r171", "r172", "r178", "r180", "r182", "r183", "r184", "r189", "r390", "r396", "r413", "r414", "r517", "r535", "r672" } }, "us-gaap_EarningsPerShareDiluted": { "xbrltype": "perShareItemType", "nsuri": "http://fasb.org/us-gaap/2024/", "localname": "EarningsPerShareDiluted", "presentation": { "http://axsome.com/20240630/taxonomy/role/Role_DisclosureNetLossPerCommonShareComputationOfBasicAndDilutedNetLossPerCommonShareDetails", "http://axsome.com/20240630/taxonomy/role/Role_StatementConsolidatedStatementsOfOperations", "lang": { "en-us": { "role": { "terseLabel": "Net loss per common share, diluted", "label": "Earnings Per Share, Diluted", "totalLabel": "Earnings Per Share, Diluted, Total", "documentation": "The amount of net income (loss) for the period available to each share of common stock or common unit outstanding during the reporting period and to each share or unit that would have been outstanding assuming the issuance of common shares or units for all dilutive potential common shares or units outstanding during the reporting period." } } } }, "auth_ref": { "r147", "r167", "r168", "r169", "r170", "r171", "r172", "r180", "r182", "r183", "r184", "r189", "r390", "r396", "r413", "r414", "r517", "r535", "r672" } }, "us-gaap_EarningsPerSharePolicyTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024/", "localname": "EarningsPerSharePolicyTextBlock", "presentation": { "http://axsome.com/20240630/taxonomy/role/Role_DisclosureSummaryOfSignificantAccountingPoliciesAdditionalInformationDetails", "lang": { "en-us": { "role": { "label": "Earnings Per Share, Policy [Policy Text Block]", "terseLabel": "Basic and Diluted Net Loss per Common Share", "documentation": "Disclosure of accounting policy for computing basic and diluted earnings or loss per share for each class of common stock and participating security. Addresses all significant policy factors, including any antidilutive items that have been excluded from the computation and takes into account stock dividends, splits and reverse splits that occur after the balance sheet date of the latest reporting period but before the issuance of the financial statements." } } } }, "auth_ref": { "r17", "r18", "r186" } }, "us-gaap_EarningsPerShareTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024/", "localname": "EarningsPerShareTextBlock", "presentation": { "http://axsome.com/20240630/taxonomy/role/Role_DisclosureNetLossPerCommonShare", "lang": { "en-us": { "role": { "label": "Earnings Per Share [Text Block]", "terseLabel": "Net Loss per Common Share", "documentation": "The entire disclosure for earnings per share." } } } }, "auth_ref": { "r177", "r185", "r187", "r188" } }, "us-gaap_EffectiveIncomeTaxRateContinuingOperations": { "xbrltype": "percentItemType", "nsuri": "http://fasb.org/us-gaap/2024/", "localname": "EffectiveIncomeTaxRateContinuingOperations", "presentation": { "http://axsome.com/20240630/taxonomy/role/Role_DisclosureSummaryOfSignificantAccountingPoliciesAdditionalInformationDetails", "lang": { "en-us": { "role": { "verboseLabel": "Effective tax rate", "label": "Effective Income Tax Rate Reconciliation, Percent", "terseLabel": "Effective tax rate", "totalLabel": "Effective Income Tax Rate Reconciliation, Percent, Total", "documentation": "Percentage of current income tax expense (benefit) and deferred income tax expense (benefit) pertaining to continuing operations." } } } }, "auth_ref": { "r368", "r706" } }, "us-gaap_EffectiveIncomeTaxRateContinuingOperationsTaxRateReconciliationAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024/", "localname": "EffectiveIncomeTaxRateContinuingOperationsTaxRateReconciliationAbstract", "presentation": { "http://axsome.com/20240630/taxonomy/role/Role_DisclosureSummaryOfSignificantAccountingPoliciesAdditionalInformationDetails", "lang": { "en-us": { "role": { "label": "Effective Income Tax Rate Reconciliation, Percent [Abstract]", "terseLabel": "Income Taxes", "documentation": "The entire disclosure for earnings per share." } } } }, "axsm_EligibleToReceiveSalesBasedAndOtherMilestones": { "xbrltype": "monetaryItemType", "nsuri": "http://axsome.com/20240630/", "localname": "EligibleToReceiveSalesBasedAndOtherMilestones", "crdr": "debit", "presentation": { "http://axsome.com/20240630/taxonomy/role/Role_DisclosureLicenseAgreementsAdditionalInformationDetails", "lang": { "en-us": { "role": { "terseLabel": "Eligible to receive sales-based and other milestones", "label": "Eligible to receive sales-based and other milestones", "documentation": "Eligible to receive sales-based and other milestones." } } } }, "auth_ref": [] }, "us-gaap_EmployeeRelatedLiabilitiesCurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024/", "localname": "EmployeeRelatedLiabilitiesCurrent", "crdr": "credit", "presentation": { "http://axsome.com/20240630/taxonomy/role/DisclosureAccruedExpensesAndOtherCurrentLiabilitiesScheduleOfAccruedExpensesAndOtherCurrentLiabilitiesDetails", "lang": { "en-us": { "role": { "label": "Employee-related Liabilities, Current", "terseLabel": "Accrued compensation", "totalLabel": "Employee-related Liabilities, Current, Total", "documentation": "Total of the carrying values as of the balance sheet date of obligations incurred through that date and payable for obligations related to services received from employees, such as accrued salaries and bonuses, payroll taxes and fringe benefits. Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer)." } } } }, "auth_ref": { "r49" } }, "us-gaap_EmployeeServiceShareBasedCompensationAllocationOfRecognizedPeriodCostsCapitalizedAmount": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024/", "localname": "EmployeeServiceShareBasedCompensationAllocationOfRecognizedPeriodCostsCapitalizedAmount", "crdr": "debit", "presentation": { "http://axsome.com/20240630/taxonomy/role/Role_DisclosureStockholdersEquityAdditionalInformationDetails", "lang": { "en-us": { "role": { "terseLabel": "Stock-based compensation expense capitalized", "label": "Share-Based Payment Arrangement, Amount Capitalized", "documentation": "Amount of cost capitalized for award under share-based payment arrangement." } } } }, "auth_ref": { "r352" } }, "us-gaap_EmployeeServiceShareBasedCompensationAllocationOfRecognizedPeriodCostsLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024/", "localname": "EmployeeServiceShareBasedCompensationAllocationOfRecognizedPeriodCostsLineItems", "presentation": { "http://axsome.com/20240630/taxonomy/role/Role_DisclosureStockholdersEquityScheduleOfStockBasedCompensationExpenseRecognizedDetails", "lang": { "en-us": { "role": { "label": "Share-Based Payment Arrangement, Expensed and Capitalized, Amount [Line Items]", "terseLabel": "Share-based Compensation Arrangement by Share-based Payment Award, Compensation Cost [Line Items]", "documentation": "Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table." } } } }, "auth_ref": [] }, "us-gaap_EmployeeServiceShareBasedCompensationNonvestedAwardsTotalCompensationCostNotYetRecognizedPeriodForRecognition1": { "xbrltype": "durationItemType", "nsuri": "http://fasb.org/us-gaap/2024/", "localname": "EmployeeServiceShareBasedCompensationNonvestedAwardsTotalCompensationCostNotYetRecognizedPeriodForRecognition1", "presentation": {

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Excludes share and unit options." } } }, "auth_ref": { "r927" } }, "us-gaap_EmployeeServiceShareBasedCompensationNonvestedAwardsTotalCompensationCostNotYetRecognizedStockOptions": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "EmployeeServiceShareBasedCompensationNonvestedAwardsTotalCompensationCostNotYetRecognizedStockOptions", "crdr": "debit", "presentation": { "http://axsome.com/20240630/taxonomy/role/Role_DisclosureStockholdersEquityAdditionalInformationDetails", "lang": { "en-us": { "role": { "label": "Share-Based Payment Arrangement, Nonvested Award, Option, Cost Not yet Recognized, Amount", "terseLabel": "Unrecognized compensation cost related to non-vested stock options expected to be recognized", "documentation": "Amount of cost to be recognized for option under share-based payment arrangement." } } }, "auth_ref": { "r927" } }, "us-gaap_EmployeeStockMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", 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It is commonly abbreviated as CIK." } } }, "auth_ref": { "dei_EntityCommonStockSharesOutstanding": { "xbrltype": "sharesItemItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityCommonStockSharesOutstanding", "presentation": { "http://axsome.com/20240630/taxonomy/role/Role_DocumentDocumentAndEntityInformation", "lang": { "en-us": { "role": { "label": "Entity Common Stock, Shares Outstanding", "terseLabel": "Entity Common Stock, Shares Outstanding", "documentation": "Indicate number of shares or other units outstanding of each of registrant's classes of capital or common stock or other ownership interests, if and as stated on cover of related periodic report. Where multiple classes or units exist define each class/interest by adding class of stock items such as Common Class A [Member], Common Class B [Member] or Partnership Interest [Member] onto the Instrument [Domain] of the Entity Listings, Instrument." } } }, "auth_ref": { "dei_EntityCurrentReportingStatus": { "xbrltype": "yesNoItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityCurrentReportingStatus", "presentation": { "http://axsome.com/20240630/taxonomy/role/Role_DocumentDocumentAndEntityInformation", "lang": { "en-us": { "role": { "label": "Entity Current Reporting Status", "terseLabel": "Entity Current Reporting Status", "documentation": "Indicate 'Yes' or 'No' whether registrants (1) have filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that registrants were required to file such reports), and (2) have been subject to such filing requirements for the past 90 days. This information should be based on the registrant's current or most recent filing containing the related disclosure." } } }, "auth_ref": { "dei_EntityEmergingGrowthCompany": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityEmergingGrowthCompany", "presentation": { "http://axsome.com/20240630/taxonomy/role/Role_DocumentDocumentAndEntityInformation", "lang": { "en-us": { "role": { "label": "Entity Emerging Growth Company", "terseLabel": "Entity Emerging Growth Company", "documentation": "Indicate if registrant meets the emerging growth company criteria." } } }, "auth_ref": { "dei_EntityFileNumber": { "xbrltype": "fileNumberItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityFileNumber", "presentation": { "http://axsome.com/20240630/taxonomy/role/Role_DocumentDocumentAndEntityInformation", "lang": { "en-us": { "role": { "label": "Securities Act File Number", "terseLabel": "Entity File Number", "documentation": "Commission file number. The field allows up to 17 characters. The prefix may contain 1-3 digits, the sequence number may contain 1-8 digits, the optional suffix may contain 1-4 characters, and the fields are separated with a hyphen." } } }, "auth_ref": { "dei_EntityFilerCategory": { "xbrltype": "filerCategoryItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityFilerCategory", "presentation": { "http://axsome.com/20240630/taxonomy/role/Role_DocumentDocumentAndEntityInformation", "lang": { "en-us": { "role": { "label": "Entity Filer Category", "terseLabel": "Entity Filer Category", "documentation": "Indicate whether the registrant is one of the following: Large Accelerated Filer, Accelerated Filer, Non-accelerated Filer. Definitions of these categories are stated in Rule 12b-2 of the Exchange Act. This information should be based on the registrant's current or most recent filing containing the related disclosure." } } }, "auth_ref": { "dei_EntityIncorporationStateCountryCode": { "xbrltype": "edgarStateCountryItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityIncorporationStateCountryCode", "presentation": { "http://axsome.com/20240630/taxonomy/role/Role_DocumentDocumentAndEntityInformation", "lang": { "en-us": { "role": { "label": "Entity Incorporation, State or Country Code", "terseLabel": "Entity Incorporation, State or Country Code", "documentation": "Two-character EDGAR code representing the state or country of incorporation." } } }, "auth_ref": { "dei_EntityInteractiveDataCurrent": { "xbrltype": "yesNoItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityInteractiveDataCurrent", "presentation": { "http://axsome.com/20240630/taxonomy/role/Role_DocumentDocumentAndEntityInformation", "lang": { "en-us": { "role": { "label": "Entity 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[illegible]

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balances, separately presenting changes attributable to the following: (1) total gains or losses for the period (realized and unrealized), segregating those gains or losses
included in earnings (or changes in net assets), and gains or losses recognized in other comprehensive income (loss) and a description of where those gains or losses included
in earnings (or changes in net assets) are reported in the statement of income (or activities); (2) purchases, sales, issues, and settlements (each type disclosed separately);
and (3) transfers in and transfers out of Level 3 (for example, transfers due to changes in the observability of significant inputs) by class of liability." } } }, "auth_ref": {
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non-financial assets, liabilities and instruments classified in shareholders' equity. Disclosures include, but are not limited to, how an entity that manages a group of financial
assets and liabilities on the basis of its net exposure measures the fair value of those assets and liabilities." } } }, "auth_ref": { } }, "us-
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the assumptions market participants would use in pricing." } } }, "auth_ref": { "r424", "r431" } },
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adjustment for impairment of asset, liability or equity, frequently measured at fair value." } } }, "auth_ref": { "r709", "r936", "r937", "r938", "r939", "r940", "r941" } },
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finance lease to be paid in next fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of
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Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)." } } }, "auth_ref": { "r239", "r660", "r682" } }, "us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseAfterYearFour": { "xbrltype": "monetaryItemType", "nsuri": "http://axsome.com/20240630", "localname": "FiniteLivedIntangibleAssetsAmortizationExpenseAfterYearFour", "crdr": "debit", "presentation": { "http://axsome.com/20240630/taxonomy/role/DisclosureIntangibleAssetScheduleOfFiniteLivedIntangibleAssetsFutureAmortizationExpensesDetails", "lang": { "en-us": { "role": { "documentation": "Finite lived intangible assets amortization expense after year four.", "label": "Finite Lived Intangible Assets Amortization Expense After Year Four", "terseLabel": "Thereafter" } } }, "auth_ref": { } }, "us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseNextTwelveMonths": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FiniteLivedIntangibleAssetsAmortizationExpenseNextTwelveMonths", "crdr": "debit", "presentation": { "http://axsome.com/20240630/taxonomy/role/DisclosureIntangibleAssetScheduleOfFiniteLivedIntangibleAssetsFutureAmortizationExpensesDetails", "lang": { "en-us": { "role": { "label": "Finite-Lived Intangible Asset, Expected Amortization, Year One", "terseLabel": "2025", "documentation": "Amount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in next fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)." } } }, "auth_ref": { "r239", "r660", "r682" } }, "us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseRemainderOfFiscalYear": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FiniteLivedIntangibleAssetsAmortizationExpenseRemainderOfFiscalYear", "crdr": "debit", "presentation": { "http://axsome.com/20240630/taxonomy/role/DisclosureIntangibleAssetScheduleOfFiniteLivedIntangibleAssetsFutureAmortizationExpensesDetails", "lang": { "en-us": { "role": { "label": "Finite-Lived Intangible Asset, Expected Amortization, Remainder of Fiscal Year", "terseLabel": "2024", "documentation": "Amount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in remainder of current fiscal year." } } }, "auth_ref": { "r1001" } }, "us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseYearFour": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FiniteLivedIntangibleAssetsAmortizationExpenseYearFour", "crdr": "debit", "presentation": { "http://axsome.com/20240630/taxonomy/role/DisclosureIntangibleAssetScheduleOfFiniteLivedIntangibleAssetsFutureAmortizationExpensesDetails", "lang": { "en-us": { "role": { "label": "Finite-Lived Intangible Asset, Expected Amortization, Year Four", "terseLabel": "2028", "documentation": "Amount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in fourth fiscal year following current fiscal year. 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Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)." } } }, "auth_ref": { "r239", "r660", "r682" } }, "us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseYearTwo": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FiniteLivedIntangibleAssetsAmortizationExpenseYearTwo", "crdr": "debit", "presentation": { "http://axsome.com/20240630/taxonomy/role/DisclosureIntangibleAssetScheduleOfFiniteLivedIntangibleAssetsFutureAmortizationExpensesDetails", "lang": { "en-us": { "role": { "label": "Finite-Lived Intangible Asset, Expected Amortization, Year Two", "terseLabel": "2026", "documentation": "Amount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in second fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)." } } }, "auth_ref": { "r239", "r660", "r682" } }, "us-gaap_FiniteLivedIntangibleAssetsGross": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FiniteLivedIntangibleAssetsGross", "crdr": "debit", "presentation": { "http://axsome.com/20240630/taxonomy/role/DisclosureIntangibleAssetScheduleOfCarryingAmountOfIntangibleAssetDetails", "lang": { "en-us": { "role": { "totalLabel": "Finite-Lived Intangible Assets, Gross, Total", "label": "Finite-Lived Intangible Assets, Gross", "terseLabel": "Gross carrying amount", "documentation": "Amount before amortization of assets, excluding financial assets and goodwill, lacking physical substance with a finite life." } } }, "auth_ref": { "r227", "r237", "r484", "r682" } }, "us-gaap_FiniteLivedIntangibleAssetsNet": { "xbrltype": "monetaryItemType", "nsuri": 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income (loss) from continuing operations, including income (loss) from equity method investments, before deduction of income tax expense (benefit), and income (loss)
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gaap/2024", "localname": "IncomeStatementLocationAxis", "presentation": {}
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carryforwards, and other carryforwards, methodologies for determining its effective income tax rate and the characterization of interest and penalties in the financial
statements." } } }, "auth_ref": { "r143", "r365", "r366", "r374", "r375", "r376", "r378", "r558" } }, "us-gaap_IncreaseDecreaseInAccountsPayable": { "xbrltype":
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Includes, but is not limited to, payment to settle zero-coupon bond for accreted interest of debt discount and debt instrument with insignificant coupon interest rate in relation to effective interest rate of borrowing attributable to accreted interest of debt discount." } } }, "auth_ref": { "r149", "r152", "r153" } } }, "us-gaap_IntestPayableCurrent": { "xbrlType": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "InterestPayableCurrent", "crdr": "credit", "presentation": { "http://axsome.com/20240630/taxonomy/role/DisclosureAccruedExpensesAndOtherCurrentLiabilitiesScheduleOfAccruedExpensesAndOtherCurrentLiabilitiesDetails", "lang": { "en-us": { "role": { "label": "Interest Payable, Current", "terseLabel": "Accrued interest", "documentation": "Carrying value as of the balance sheet date of [accrued] interest payable on all forms of debt, including trade payables, that has been incurred and is unpaid. Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer)." } } }, "auth_ref": { "r49" } } }, "axsm_InventoriesCurrentAndNoncurrent": { "xbrlType": "monetaryItemType", "nsuri": "http://axsome.com/20240630", "localname": "InventoryCurrentAndNoncurrent", "crdr": "debit", "presentation": { "http://axsome.com/20240630/taxonomy/role/DisclosureInventoryScheduleOfInventoryDetails", "http://axsome.com/20240630/taxonomy/role/DisclosureInventorySummaryOfBalanceSheetClassificationOfInventoryDetails", "lang": { "en-us": { "role": { "totalLabel": "Total", "label": "Inventory Current and Noncurrent", "documentation": "Inventory current and noncurrent." } } }, "auth_ref": { "us-gaap_InventoriesDisclosureAbstract": { "xbrlType": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "InventoryDisclosureAbstract", "lang": { "en-us": { "role": { "label": "Inventory Disclosure [Abstract]", "auth_ref": { "us-gaap_InventoriesDisclosureTextBlock": { "xbrlType": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "InventoryDisclosureTextBlock", "presentation": { "http://axsome.com/20240630/taxonomy/role/DisclosureInventory1", "lang": { "en-us": { "role": { "terseLabel": "Inventory", "label": "Inventory Disclosure [Text Block]", "documentation": "The entire disclosure for inventory. 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Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)."} } }, "auth_ref": {"r463"} }, "us-gaap_LesseeOperatingLeaseLiabilityPaymentsRemainderOffFiscalYear": {"xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LesseeOperatingLeaseLiabilityPaymentsRemainderOffFiscalYear", "crdr": "credit", "presentation": {"http://axsome.com/20240630/taxonomy/role/DisclosureCommitmentsAndContingenciesScheduleOffFutureMinimumLeasePaymentsOffLeasesDetails", "lang": {"en-us": {"role": {"label": "Lessee, Operating Lease, Liability, to be Paid, Remainder of Fiscal Year", "terseLabel": "2024", "documentation": "Amount of lessee's undiscounted obligation for lease payment for operating lease having initial or remaining lease term in excess of one year to be paid in remainder of current fiscal year." } } }, "auth_ref": {"r949"} }, "LesseeOperatingLeaseLiabilityUndiscountedExcessAmount": {"xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LesseeOperatingLeaseLiabilityUndiscountedExcessAmount", "crdr": "credit", "presentation": {"http://axsome.com/20240630/taxonomy/role/DisclosureCommitmentsAndContingenciesScheduleOffFutureMinimumLeasePaymentsOffLeasesDetails", "lang": {"en-us": {"role": {"label": "Lessee, Operating Lease, Liability, Undiscounted Excess Amount", "negatedLabel": "Less imputed interest", "documentation": "Amount of lessee's undiscounted obligation for lease payments in excess of discounted obligation for lease payments for operating lease." } } }, "auth_ref": {"r463"} }, "us-gaap_LesseeOperatingLeaseOptionToExtend": {"xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LesseeOperatingLeaseOptionToExtend", "presentation": {"http://axsome.com/20240630/taxonomy/role/DisclosureCommitmentsAndContingenciesAdditionalInformationDetails", "lang": {"en-us": {"role": {"label": "Lessee, Operating Lease, Option to Extend", "terseLabel": "Lessee, operating lease, option to extend", "documentation": "Description of terms and conditions of option to extend lessee's operating lease. 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Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)."} } }, "auth_ref": { "r5", "r161", "r275" } }, "us-gaap_LongTermDebtMaturitiesRepaymentsOfPrincipalInYearFour": { "xbrlType": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LongTermDebtMaturitiesRepaymentsOfPrincipalInYearFour", "crdr": "credit", "presentation": { "http://axsome.com/20240630/taxonomy/role/Role_DisclosureLoanAndSecurityAgreementScheduleOfPrincipalPaymentsDetails", "lang": { "en-us": { "role": { "label": "Long-Term Debt, Maturity, Year Four", "terseLabel": "2027", "documentation": "Amount of long-term debt payable, sinking fund requirement, and other securities issued that are redeemable by holder at fixed or determinable price and date, maturing in fourth fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)."} } }, "auth_ref": { "r5", "r161", "r275" } }, "us-gaap_LongTermDebtMaturitiesRepaymentsOfPrincipalInYearThree": { "xbrlType": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LongTermDebtMaturitiesRepaymentsOfPrincipalInYearThree", "crdr": "credit", "presentation": { "http://axsome.com/20240630/taxonomy/role/Role_DisclosureLoanAndSecurityAgreementScheduleOfPrincipalPaymentsDetails", "lang": { "en-us": { "role": { "label": "Long-Term Debt, Maturity, Year Three", "terseLabel": "2026", "documentation": "Amount of long-term debt payable, sinking fund requirement, and other securities issued that are redeemable by holder at fixed or determinable price and date, maturing in third fiscal year following current fiscal year. 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Investing activity cash flows include making and collecting loans and acquiring and disposing of debt or equity instruments and property, plant, and equipment and other productive assets."}, "auth_ref": [{"

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Includes, but is not limited to, quantification of the expected or actual impact." } }}, "auth_ref": {"axsm_NonCashLeaseExpense": {"xbrltype": "monetaryItemType", "nsuri": "http://axsome.com/20240630", "localname": "NonCashLeaseExpense", "crdr": "debit", "presentation": {"http://axsome.com/20240630/taxonomy/role/Role_StatementConsolidatedStatementsOfCashFlows", "lang": {"en-us": {"role": {"documentation": "Non-cash-lease expense.", "label": "Non-Cash Lease Expense", "terseLabel": "Non-cash lease expense" } }}, "auth_ref": {"axsm_NonCurrentInventoryAndOtherAssets": {"xbrltype": "monetaryItemType", "nsuri": "http://axsome.com/20240630", "localname": "NonCurrentInventoryAndOtherAssets", "crdr": "credit", "presentation": {"http://axsome.com/20240630/taxonomy/role/Role_StatementConsolidatedStatementsOfCashFlows", "lang": {"en-us": {"role": {"documentation": "Non-current inventory and other assets", "label": "Non-Current Inventory and Other Assets", "negatedLabel": "Non-current inventory and 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An operating segment is a component of an enterprise: (a) that engages in business activities from which it may earn revenues and incur expenses (including revenues and expenses relating to transactions with other components of the same enterprise), (b) whose operating results are regularly reviewed by the enterprise's chief operating decision maker to make decisions about resources to be allocated to the segment and assess its performance, and (c) for which discrete financial information is available. An operating segment may engage in business activities for which it has yet to earn revenues, for example, start-up operations may be operating segments before earning revenues." } }}, "auth_ref": {"r678", "r862"}, "us-gaap_NumberOfReportingUnits": {"xbrltype": "integerItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "NumberOfReportingUnits", "presentation": {"http://axsome.com/20240630/taxonomy/role/Role_DisclosureSummaryOfSignificantAccountingPoliciesAdditionalInformationDetails", "lang": {"en-us": {"role": {"terseLabel": "Number of reporting units", "label": "Number of Reporting Units", "documentation": "Number of reporting units tested for impairment of goodwill. A reporting unit is an operating segment or one level below an operating segment." } }}, "auth_ref": {"us-gaap_OperatingExpensesAbstract": {"xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "OperatingExpensesAbstract", "presentation": {"http://axsome.com/20240630/taxonomy/role/Role_StatementConsolidatedStatementsOfOperations", "lang": {"en-us": {"role": {"terseLabel": "Operating expenses", "label": "Operating Expenses [Abstract]", "auth_ref": {"us-gaap_OperatingIncomeLoss": {"xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "OperatingIncomeLoss", "crdr": "credit", "presentation": {"http://axsome.com/20240630/taxonomy/role/Role_StatementConsolidatedStatementsOfOperations", "lang": {"en-us": {"role": {"terseLabel": "Loss from operations", "label": "Operating Income (Loss)", "totalLabel": "Loss from operations", "documentation": "The net result for the period of deducting operating expenses from operating revenues." } }}, "auth_ref": {"r109", "r674", "r861", "r863", "r864", "r865", "r866"}, "us-gaap_OperatingLeaseCost": {"xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "OperatingLeaseCost", "crdr": "debit", "presentation": {"http://axsome.com/20240630/taxonomy/role/DisclosureCommitmentsAndContingenciesScheduleOfLeaseExpenseDetails", "lang": {"en-us": {"role": {"label": "Operating Lease, Cost", "terseLabel": "Total operating lease expense", "documentation": "Amount of single lease cost, calculated by allocation of remaining cost of lease over remaining lease term. Includes, but is not limited to, single lease cost, after impairment of right-of-use asset, calculated by amortization of remaining right-of-use asset and accretion of lease liability." } }}, "auth_ref": {"r458", "r718"}, "axsm_OperatingLeaseExpirationMonthAndYear": {"xbrltype": "gYearMonthItemType", "nsuri": "http://axsome.com/20240630", "localname": "OperatingLeaseExpirationMonthAndYear", "presentation": {"http://axsome.com/20240630/taxonomy/role/DisclosureCommitmentsAndContingenciesAdditionalInformationDetails", "lang": {"en-us": {"role": {"documentation": "Operating lease, expiration month and year.", "label": "Operating Lease Expiration Month And Year", "terseLabel": "Operating lease, expiration month and year" } }}, "auth_ref": {"us-gaap_OperatingLeaseLiabilitiesPaymentsDueAbstract": {"xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "OperatingLeaseLiabilitiesPaymentsDueAbstract", "presentation": {"http://axsome.com/20240630/taxonomy/role/DisclosureCommitmentsAndContingenciesScheduleOfFutureMinimumLeasePaymentsOfLeasesDetails", "lang": {"en-us": {"role": {"label": "Lessee, Operating Lease, Liability, to be Paid, Fiscal Year Maturity [Abstract]", "terseLabel": "Operating Lease" } }}, "auth_ref": {"us-gaap_OperatingLeaseLiability": {"xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "OperatingLeaseLiability", "crdr": "credit", "presentation": {"http://axsome.com/20240630/taxonomy/role/DisclosureCommitmentsAndContingenciesScheduleOfFutureMinimumLeasePaymentsOfLeasesDetails", "lang": {"en-us": {"role": {"label": "Operating Lease, Liability", "terseLabel": "Present value of operating lease liabilities", "totalLabel": "Operating Lease, Liability, Total", "verboselabel": "Operating lease liability", "documentation": "Present value of lessee's discounted obligation for lease payments from operating lease." } }}, "auth_ref": {"r449"}, "us-gaap_OperatingLeaseLiabilityCurrent": {"xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "OperatingLeaseLiabilityCurrent", "crdr": "credit", "presentation": {"http://axsome.com/20240630/taxonomy/role/Role_StatementConsolidatedBalanceSheets", "lang": {"en-us": {"role": {"label": "Operating Lease, Liability, Current", "terseLabel": "Operating lease liability, current portion", "documentation": "Present value of lessee's discounted obligation for lease payments from operating lease, classified as current." } }}, "auth_ref": {"r449"}, "us-gaap_OperatingLeaseLiabilityNoncurrent": {"xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "OperatingLeaseLiabilityNoncurrent", "crdr": "credit", "presentation": {"http://axsome.com/20240630/taxonomy/role/Role_StatementConsolidatedBalanceSheets", "lang": {"en-us": {"role": {"label": "Operating Lease, Liability, Noncurrent", "terseLabel": "Operating lease liability, long-term", "documentation": "Present value of lessee's discounted obligation for lease payments from operating lease, classified as noncurrent." } }}, "auth_ref": {"r449"}, "us-gaap_OperatingLeaseLiabilityStatementOffFinancialPositionExtensibleList": {"xbrltype": "enumerationSetItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "OperatingLeaseLiabilityStatementOffFinancialPositionExtensibleList", "presentation": {"http://axsome.com/20240630/taxonomy/role/DisclosureCommitmentsAndContingenciesAdditionalInformationDetails", "lang": {"en-us": {"role": {"label": "Operating Lease, Liability, Statement of Financial Position [Extensible Enumeration]", "documentation": "Indicates line item in statement of financial position that includes operating lease liability." } }}, "auth_ref": {"r450"}, "us-gaap_OperatingLeaseRightOfUseAsset": {"xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "OperatingLeaseRightOfUseAsset", "crdr": "debit", "presentation": {"http://axsome.com/20240630/taxonomy/role/Role_StatementConsolidatedBalanceSheets", "lang": {"en-us": {"role": {"label": "Operating Lease, Right-of-Use Asset", "terseLabel": "Right-of-use asset - operating lease", "verboselabel": "Operating lease, right-of-use asset", "documentation": "Amount of lessee's right to use underlying asset under operating lease." } }}, "auth_ref": {"r448"}, "us-gaap_OperatingLeaseRightOfUseAssetStatementOffFinancialPositionExtensibleList": {"xbrltype": "enumerationSetItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "OperatingLeaseRightOfUseAssetStatementOffFinancialPositionExtensibleList", "presentation": {"http://axsome.com/20240630/taxonomy/role/DisclosureCommitmentsAndContingenciesAdditionalInformationDetails", "lang": {"en-us": {"role": {"label": "Operating Lease, Right-of-Use Asset, Statement of Financial Position [Extensible Enumeration]", "documentation": "Indicates line item in statement of financial position that includes

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Excludes amendment to accounting standards, other change in accounting principle, and correction of error." } } }, "auth_ref": { "r842" } }, "axsm_ProbabilityOfOccurrenceCumulativeThroughEachMilestoneMember": { "xbrltype": "domainItemType", "nsuri": "http://axsome.com/20240630", "localname": "ProbabilityOfOccurrenceCumulativeThroughEachMilestoneMember", "presentation": { "http://axsome.com/20240630/taxonomy/role/DisclosureFairValueOffFinancialInstrumentsScheduleOffFairValueMeasurementsOfContingentConsiderationRecurringIncludeSignifi", "lang": { "en-us": { "role": { "terseLabel": "Probability of occurrence (cumulative through each milestone)", "label": "Probability Of Occurrence Cumulative Through Each Milestone [Member]", "documentation": "Probability of occurrence cumulative through each milestone [Member].", "auth_ref": { } }, "axsm_ProbabilityOfOccurrencePeriodicForEachMilestoneMember": { "xbrltype": "domainItemType", "nsuri": "http://axsome.com/20240630", "localname": 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"http://axsome.com/20240630/taxonomy/role/Role_DisclosureSummaryOfSignificantAccountingPoliciesAdditionalInformationDetails", "http://axsome.com/20240630/taxonomy/role/Role_StatementConsolidatedStatementsOfOperations", "lang": { "en-us": { "role": { "label": "Product and Service [Axis]", "terseLabel": "Product and Service" } } }, "auth_ref": { "r207", "r482", "r537", "r538", "r539", "r540", "r541", "r542", "r543", "r662", "r690", "r728", "r730", "r731", "r734", "r735", "r889", "r890", "r897", "r964", "r966", "r967", "r968", "r969", "r970", "r971", "r972", "r973", "r974", "r975", "r976", "r977", "r978", "r979", "r980", "r981", "r982", "r983", "r984", "r985", "r986", "r987", "r988", "r989", "r990", "r991", "r992", "r993" } }, "axsm_ProductSalesMember": { "xbrltype": "domainItemType", "nsuri": "http://axsome.com/20240630", "localname": "ProductSalesMember", "presentation": { 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depreciation, depletion and amortization of physical assets used in the normal conduct of business to produce goods and services and not intended for resale." } } }, "auth_ref": { "r128", "r141", "r142", "r150", "r157", "r165", "r171", "r174", "r175", "r217", "r255", "r256", "r257", "r258", "r259", "r260", "r261", "r262", "r263", "r390", "r396", "r398", "r401", "r402", "r414", "r437", "r518", "r532", "r565", "r602", "r622", "r623", "r707", "r708", "r745", "r849", "r893" } } } }

Examples include, but are not limited to, land, buildings, machinery and equipment, office equipment, and furniture and fixtures." } } }, "auth_ref": { "r4": "r464", "r519", "r530", "r719" } }, "us-gaap_PropertyPlantAndEquipmentPolicyTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PropertyPlantAndEquipmentPolicyTextBlock", "presentation": { "http://axsome.com/20240630/taxonomy/role/DisclosureSummaryOfSignificantAccountingPoliciesPolicies", "lang": { "en-us": { "role": { "label": "Equipment, net", "label": "Property, Plant and Equipment, Policy {Policy Text Block}", "documentation": "Disclosure of accounting policy for long-lived, physical asset used in normal conduct of business and not intended for resale. Includes, but is not limited to, work of art, historical treasure, and similar asset classified as collections." } } }, "auth_ref": { "r4": "r121", "r124", "r529" } }, "us-gaap_PropertyPlantAndEquipmentTypeDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PropertyPlantAndEquipmentTypeDomain", "presentation": { "http://axsome.com/20240630/taxonomy/role/DisclosureCommitmentsAndContingenciesAdditionalInformationDetails", "lang": { "en-us": { "role": { "label": "Long-Lived Tangible Asset {Domain}", "documentation": "Listing of long-lived, physical assets that are used in the normal conduct of business to produce goods and services and not intended for resale. Examples include land, buildings, machinery and equipment, and other types of furniture and equipment including, but not limited to, office equipment, furniture and fixtures, and computer equipment and software." } } }, "auth_ref": { "r85": "r464" } }, "us-gaap_PropertyPlantAndEquipmentUsefulLife": { "xbrltype": "durationItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PropertyPlantAndEquipmentUsefulLife", "presentation": { "http://axsome.com/20240630/taxonomy/role/DisclosureSummaryOfSignificantAccountingPoliciesAdditionalInformationDetails", "lang": { "en-us": { "role": { "label": "Property, Plant and Equipment, Useful Life", "terseLabel": "Estimated useful life", "documentation": "Useful life of long lived, physical assets used in the normal conduct of business and not intended for resale, in 'PnYnMnDnFnInMnS' format, for example, 'P1Y5M13D' represents the reported fact of one year, five months, and thirteen days. Examples include, but not limited to, land, buildings, machinery and equipment, office equipment, furniture and fixtures, and computer equipment." } } }, "auth_ref": { "ecd_PvpTable": { "xbrltype": "stringItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "PvpTable", "presentation": { "http://xbrl.sec.gov/ecd/role/PvpDisclosure", "lang": { "en-us": { "role": { "label": "Pay vs Performance Disclosure {Table}", "terseLabel": "Pay vs Performance Disclosure" } } }, "auth_ref": { "r784" } }, "ecd_PvpTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "PvpTableTextBlock", "presentation": { "http://xbrl.sec.gov/ecd/role/PvpDisclosure", "lang": { "en-us": { "role": { "label": "Pay vs Performance {Table Text Block}", "terseLabel": "Pay vs Performance Disclosure, Table" } } }, "auth_ref": { "r784" } }, "srt_RangeAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/srt/2024", "localname": "RangeAxis", "presentation": { "http://axsome.com/20240630/taxonomy/role/DisclosureCommitmentsAndContingenciesAdditionalInformationDetails", "lang": { "en-us": { "role": { "label": "Statistical Measurement {Axis}", "terseLabel": "Statistical Measurement" } } }, "auth_ref": { "r249", "r250", "r251", "r252", "r308", "r316", "r347", "r348", "r349", "r359", "r420", "r477", "r478", "r480", "r544", "r546", "r553", "r572", "r573", "r632", "r634", "r636", "r637", "r639", "r657", "r658", "r680", "r689", "r702", "r713", "r714", "r715", "r716", "r730", "r738", "r885", "r895", "r939", "r956", "r957", "r958", "r959", "r960" } }, "srt_RangeMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/srt/2024", "localname": "RangeMember", "presentation": { "http://axsome.com/20240630/taxonomy/role/DisclosureCommitmentsAndContingenciesAdditionalInformationDetails", "lang": { "en-us": { "role": { "label": "Statistical Measurement {Domain}", "terseLabel": "Statistical Measurement" } } }, "auth_ref": { "r249", "r250", "r251", "r252", "r308", "r316", "r347", "r348", "r349", "r359", "r420", "r477", "r478", "r480", "r544", "r546", "r553", "r572", "r573", "r632", "r634", "r636", "r637", "r639", "r657", "r658", "r680", "r689", "r702", "r713", "r714", "r715", "r716", "r730", "r738", "r885", "r895", "r939", "r956", "r957", "r958", "r959", "r960" } }, "us-gaap_ReceivablesAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ReceivablesAbstract", "presentation": { "http://axsome.com/20240630/taxonomy/role/DisclosureSummaryOfSignificantAccountingPoliciesAdditionalInformationDetails", "lang": { "en-us": { "role": { "label": "Accounts Receivable, net", "label": "Receivables {Abstract}" } } }, "auth_ref": { "ecd_RecoveryOfErrCompDisclosureLineItems": { "xbrltype": "stringItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "RecoveryOfErrCompDisclosureLineItems", "lang": { "en-us": { "role": { "label": "Recovery of Erroneously Awarded Compensation Disclosure {Line Items}", "terseLabel": "Recovery of Erroneously Awarded Compensation Disclosure" } } }, "auth_ref": { "r752", "r762", "r772", "r804" } }, "us-gaap_RelatedPartyDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RelatedPartyDomain", "presentation": { "http://axsome.com/20240630/taxonomy/role/DisclosureRelatedPartyTransactionsAdditionalInformationDetails", "lang": { "en-us": { "role": { "label": "Related and Nonrelated Parties {Domain}", "terseLabel": "Related Party", "documentation": "Related and nonrelated parties. Related party includes, but is not limited to, affiliate, other entity for which investment is accounted for under equity method, trust for benefit of employee, principal owner, management, and member of immediate family, and other party that may be prevented from pursuing separate interests because of control, significant influence, or ownership interest." } } }, "auth_ref": { "r211", "r315", "r470", "r471", "r522", "r528", "r575", "r576", "r577", "r578", "r579", "r599", "r601", "r631" } }, "us-gaap_RelatedPartyTransactionLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RelatedPartyTransactionLineItems", "presentation": { "http://axsome.com/20240630/taxonomy/role/DisclosureRelatedPartyTransactionsAdditionalInformationDetails", "lang": { "en-us": { "role": { "label": "Related Party Transaction {Line Items}", "documentation": "Line items represent financial concepts included in a table. 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Related party includes, but is not limited to, affiliate, other entity for which investment is accounted for under equity method, trust for benefit of employee, principal owner, management, and member of immediate family, and other party that may be prevented from pursuing separate interests because of control, significant influence, or ownership interest." } } }, "auth_ref": { "r211", "r315", "r470", "r471", "r522", "r528", "r575", "r576", "r577", "r578", "r579", "r599", "r601", "r631" } }, "us-gaap_RelatedPartyTransactionsDisclosureTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RelatedPartyTransactionsDisclosureTextBlock", "presentation": { "http://axsome.com/20240630/taxonomy/role/DisclosureRelatedPartyTransactions1", "lang": { "en-us": { "role": { "label": "Related Party Transactions Disclosure {Text Block}", "terseLabel": "Related Party Transactions", "documentation": "The entire disclosure for related party transactions. 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Includes, but is not limited to, cost for computer software product to be sold, leased, or otherwise marketed and writeoff of research and development assets acquired in transaction other than business combination or joint venture formation or both. Excludes write-down of intangible asset acquired in business combination or from joint venture formation or both, used in research and development activity." } } }, "auth_ref": { "r362", "r660", "r677", "r961" } }, "us-gaap_ResearchAndDevelopmentExpenseMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ResearchAndDevelopmentExpenseMember", "presentation": { "http://axsome.com/20240630/taxonomy/role/DisclosureStockholdersEquityScheduleOfStockBasedCompensationExpenseRecognizedDetails", "lang": { "en-us": { "role": { "label": "Research and Development Expense {Member}", "terseLabel": "Research and Development", "documentation": "Primary financial statement caption in which the reported facts about research and development expense have been included." } } }, "auth_ref": { "us-gaap_ResearchAndDevelopmentExpensePolicy": { "xbrltype":

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"http://axsome.com/20240630/taxonomy/role/Role_DisclosureStockholdersEquityScheduleOfRSUActivityDetails", "lang": { "en-us": { "role": { "label": "Restricted Stock Units (RSUs) [Member]", "terseLabel": "Restricted Stock Units", "documentation": "Share instrument which is convertible to stock or an equivalent amount of cash, after a specified period of time or when specified performance conditions are met." } } }, "auth_ref": {} }, "us-gaap_RetainedEarningsAccumulatedDeficit": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RetainedEarningsAccumulatedDeficit", "crdr": "credit", "presentation": {
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Dividends are taken into account because payment of dividends to shareholders reduces the fair value of the underlying shares, and option holders generally do not receive dividends." } } }, "auth_ref": { "r348" } }, "us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationArrangementByShareBasedPaymentAwardLineItems", "presentation": { "http://axsome.com/20240630/taxonomy/role/Role_DisclosureStockholdersEquityAdditionalInformationDetails", "http://axsome.com/20240630/taxonomy/role/Role_DisclosureStockholdersEquityAdditionalInformationDetails", "http://axsome.com/20240630/taxonomy/role/Role_DisclosureStockholdersEquityScheduleOfRSUActivityDetails" }, "lang": { "en-us": { "role": { "label": "Share-Based Compensation Arrangement by Share-Based Payment Award [Line Items]", "terseLabel": "Share-Based Compensation Arrangement by Share-Based Payment Award [Line Items]", "documentation": "Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table." } } }, "auth_ref": { "r319", "r321", "r322", "r323", "r324", "r326", "r327", "r328", "r329", "r330", "r331", "r332", "r333", "r334", "r335", "r336", "r337", "r338", "r339", "r340", "r341", "r342", "r343", "r346", "r347", "r348", "r349", "r350" } }, "us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardNumberOfSharesAvailableForGrant": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationArrangementByShareBasedPaymentAwardNumberOfSharesAvailableForGrant", "presentation": { "http://axsome.com/20240630/taxonomy/role/Role_DisclosureStockholdersEquityAdditionalInformationDetails", "http://axsome.com/20240630/taxonomy/role/Role_DisclosureStockholdersEquityAdditionalInformationDetails", 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Includes, but is not limited to, unvested options for which requisite service period has not been rendered but that are expected to vest based on achievement of performance condition, if forfeitures are recognized when they occur." } } }, "auth_ref": { "r343" } }, "us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsVestedAndExpectedToVestOutstandingAggregateIntrinsicValue": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsVestedAndExpectedToVestOutstandingAggregateIntrinsicValue", "crdr": "debit", "presentation": { "http://axsome.com/20240630/taxonomy/role/Role_DisclosureStockholdersEquitySummaryOfStockOptionActivityDetails" }, "lang": { "en-us": { "role": { "label": "Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Vested and Expected to Vest, Outstanding, Aggregate Intrinsic Value", "terseLabel": "Aggregate intrinsic value, Vested and expected to vest", "documentation": "Amount by which current fair value of underlying stock exceeds exercise price of fully vested and expected to vest options outstanding. Includes, but is not limited to, unvested options for which requisite service period has not been rendered but that are expected to vest based on achievement of performance condition, if forfeitures are recognized when they occur." } } }, "auth_ref": { "r342" } }, "us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsVestedAndExpectedToVestOutstandingNumber": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsVestedAndExpectedToVestOutstandingNumber", "presentation": { "http://axsome.com/20240630/taxonomy/role/Role_DisclosureStockholdersEquitySummaryOfStockOptionActivityDetails" }, "lang": { "en-us": { "role": { "label": "Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Vested and Expected to Vest, Outstanding, Number", "terseLabel": "Number of shares, Vested and expected to vest", "documentation": "Number of fully vested and expected to vest options outstanding that can be converted into shares under option plan. 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Includes, but is not limited to, unvested options for which requisite service period has not been rendered but that are expected to vest based on achievement of performance condition, if forfeitures are recognized when they occur." } } }, "auth_ref": { "r342" } }, "us-gaap_ShareBasedCompensationArrangementsByShareBasedPaymentAwardTypeAndPlanNameDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationArrangementsByShareBasedPaymentAwardTypeAndPlanNameDomain", "presentation": { "http://axsome.com/20240630/taxonomy/role/Role_DisclosureStockholdersEquityAdditionalInformationDetails", "http://xbrl.sec.gov/ecd/role/AwardTimingDisclosure" }, "lang": { "en-us": { "role": { "label": "All Award Types", "terseLabel": "All Award Types", "documentation": "Award under share-based payment arrangement." } } }, "auth_ref": { "r322", "r323", "r324", "r326", "r327", "r328", "r329", "r330", "r331", "r332", "r333", "r334", "r335", "r336", 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L2B4=5^/7+>@9@V^E^W^W^K^2DMM8^>9\$4#1^L2S3^\$ED ME^M0A^A^X(A^E^EFS^CWFCKH^3L^695<D)S^P+OC7(137B>>)<=>(K2
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CM&T\$R1N:7%2T4BPD^Y4(4^>HJ^>I^>AAM^M8Z9A&K^K<+>F^E^CUV=>1SPYN^>Y^U^H1A1^>D\$N0^Y^0^M^Y^C^K^>53M15A^M^HZUF^T^>@/>ZLHCZ,C65W6NSU0^<7^>
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H(\$Q)XJ^EIMT4J^2JD>@(<=>.%UE1^2^>3=>63)DP+>R^>L^>J^>1^>T@N5^--MAVJN>5VQ7PK/8[1+>7^E>Y+>0,BQ,7L1)ET^>1^>(0)^>Z+>PYC%0:E0(0>8/>
M7>53J6]>?>RRT\$KJ&24H^>+>Y^>W^>F0X<=>ZK0C0+>Q4^>3^<JCKN5TAXHJ^>L^>M^>H1R8FQJ^>+>G^>B\$<=>00\$8A1^>7B^>D^>K(W+<=>8J

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Nature of Business and Basis of Presentation</p><p style="text-indent: 6.667%;font-size: 10pt;margin-top: 12pt;font-family: Times New Roman;margin-bottom: 0;text-align: left;">The Company acquired the U.S. rights to Sunosi from Jazz Pharmaceuticals plc ("Jazz") in May 2022 and worldwide ex-U.S. rights (excluding certain Asian markets) from Jazz in November 2022 (collectively, the "Acquisition"). Sunosi is a product approved by the U.S. Food and Drug Administration (the "FDA") and marketed in the U.S. to improve wakefulness in adult patients with excessive daytime sleepiness ("EDS") associated with narcolepsy or obstructive sleep apnea. Sunosi was approved in Europe in January 2020 by the European Commission. In February 2023, the Company announced a licensing transaction with Atnahs Pharma UK Limited ("Pharmanovia") to market Sunosi in Europe and certain countries in the Middle East / North Africa.</p><p style="text-indent: 6.667%;font-size: 10pt;margin-top: 12pt;font-family: Times New Roman;margin-bottom: 0;text-align: left;">In August 2022, the Company announced the FDA approval of Auvelity, and in October 2022, the U.S. commercial availability of Auvelity for the treatment of major depressive disorder in adults.</p><p style="text-indent: 6.667%;font-size: 10pt;margin-top: 12pt;font-family: Times New Roman;margin-bottom: 0;text-align: left;">The accompanying unaudited interim consolidated financial statements have been prepared by the Company in accordance with accounting principles generally accepted in the United States ("U.S. GAAP") for interim information and pursuant to the rules and regulations of the Securities and Exchange Commission (the "SEC") for reporting on Form 10-Q. Accordingly, certain information and footnote disclosures normally included in financial statements prepared in accordance with U.S. GAAP have been condensed or omitted pursuant to such rules and regulations. These unaudited interim consolidated financial statements should be read in conjunction with the audited financial statements and related notes included in the Company's Annual Report on Form 10-K for the year ended December 31, 2023 filed with the SEC on February 23, 2024.</p><p style="text-indent: 6.667%;font-size: 10pt;margin-top: 12pt;font-family: Times New Roman;margin-bottom: 0;text-align: left;">In the opinion of management, the unaudited interim consolidated financial statements reflect all adjustments, which are normal recurring adjustments, necessary for the fair presentation of the financial information for the interim periods. The results of operations for the three and six months ended June 30, 2024 are not necessarily indicative of the operating results for the full fiscal year or any future period.</p><p style="text-indent: 6.383%;padding-left: 6%;font-size: 10pt;margin-top: 12pt;font-family: Times New Roman;margin-bottom: 0;text-align: left;">Liquidity and Capital Resources</p><p style="text-indent: 6.667%;font-size: 10pt;margin-top: 12pt;font-family: Times New Roman;margin-bottom: 0;text-align: left;">The Company has incurred operating losses since its inception and expects to continue to incur operating losses and may never become profitable. As of June 30, 2024, the Company had an accumulated deficit of \$</p><p style="text-indent: 6.667%;font-size: 10pt;font-family: Times New Roman;min-width: fit-content;">983.3</p><p style="text-indent: 6.667%;font-size: 10pt;margin-top: 12pt;font-family: Times New Roman;margin-bottom: 0;text-align: left;">million.</p><p style="text-indent: 6.667%;font-size: 10pt;margin-top: 12pt;font-family: Times New Roman;margin-bottom: 0;text-align: left;">The Company's primary sources of cash have been proceeds from the sales of Sunosi and Auvelity, the issuance and sale of its common stock in public offerings, and the issuance of debt. The Company's ability to achieve profitability depends on a number of factors, including its ability to obtain regulatory approval for its product candidates, successfully complete any post-approval regulatory obligations and successfully commercialize its product candidates alone or in partnership with third parties. The Company may continue to incur substantial operating losses even as it continues to generate revenues from its products.</p><p style="text-indent: 6.667%;font-size: 10pt;margin-top: 12pt;font-family: Times New Roman;margin-bottom: 0;text-align: left;">The Company believes its existing cash will be sufficient to fund its anticipated operating cash requirements for at least twelve months following the date of this filing. During that time, the Company expects that its expenses will increase primarily due to the commercialization of Sunosi and Auvelity while continuing to further develop the Company's pipeline assets. The Company may use a combination of public and private equity offerings, debt financings, other third-party funding, strategic alliances, licensing arrangements or marketing and distribution arrangements if market conditions are favorable or as a result of other strategic considerations to finance its future cash needs.</p><p style="text-indent: 6.667%;font-size: 10pt;margin-top: 12pt;font-family: Times New Roman;margin-bottom: 0;text-align: left;">The Company's common stock is listed on The Nasdaq Global Market and trades under the symbol "AXSM."</p><p style="text-indent: 6.667%;font-size: 10pt;margin-top: 12pt;font-family: Times New Roman;margin-bottom: 0;text-align: left;"></p></div>

Note 2. Summary of Significant Accounting Policies

Revenues

The Company's operations are subject to a number of factors that can affect its operating results and financial condition. Such factors include, but are not limited to: the results of clinical testing and trial activities of the Company's product candidates; the Company's ability to obtain regulatory approval to market its products; competition from products manufactured and sold or being developed by other companies; the price of, and demand for, the Company's products; the Company's ability to negotiate favorable licensing or other manufacturing and marketing agreements for its products; and the Company's ability to raise additional capital. If the Company's commercialization of its products is not financially successful, it will be unable to generate sufficient recurring product revenue to achieve and maintain profitability.

Management considers many factors in developing the estimates and assumptions that are used in the preparation of these financial statements. Management must apply significant judgment in this process. In addition, other factors may affect estimates, including expected business and operational changes, sensitivity and volatility associated with the assumptions used in developing estimates, and whether historical trends are expected to be representative of future trends. The estimation process often may yield a range of potentially reasonable estimates of ultimate future outcomes, and management must select an amount that falls within that range of reasonable estimates. This process may result in actual results differing materially from those estimated amounts used in the preparation of the financial statements if these results differ from historical experience, or other assumptions do not turn out to be substantially accurate, even if such assumptions are reasonable when made. In preparing these financial statements, management used significant estimates in the following areas, among others: stock-based compensation expense; determination of fair value of warrants; accounting for research and development costs; accounting for acquisitions; impairments of goodwill and the intangible asset; determination of fair value of contingent consideration; chargebacks, cash discounts, sales rebates, returns and other adjustments; and the recoverability of the Company's net deferred tax assets and related valuation allowance.

Revenue Recognition

Revenue from Contracts with Customers ("ASC 606")

The Company recognizes revenue when the customer obtains control of a promised good or service, in an amount that reflects the consideration that the Company expects to receive in exchange for the good or service. Transfer of control is based on contractual performance obligations, which occurs upon transfer of the title along with the physical transfer of the Company's goods to the customer, as that is when the customer has obtained control of significantly all of the economic benefits and the Company obtains a right of payment.

To determine revenue recognition for arrangements that the Company determines are within the scope of ASC 606, the Company performs the following five steps: (i) identify the contract(s) with a customer, (ii) identify the performance obligations in the contract, (iii) determine the transaction price, (iv) allocate the transaction price to the performance obligations in the contract, and (v) recognize revenue when (or as) the entity satisfies a performance obligation. The Company only applies the five-step model to arrangements that meet the definition of a contract under ASC 606, including when it is probable that the Company will collect the consideration it is entitled to in exchange for the goods or services it transfers to the customer. At contract inception, once the contract is determined to be within the scope of ASC 606, the Company assesses the goods or services promised within each contract and determines those that are performance obligations and assesses whether each promised good or service is distinct. The Company then recognizes as revenue the amount of the transaction price that is allocated to the respective performance obligation when (or as) the performance obligation is satisfied. For a complete discussion of accounting for product sales, see Product Sales, net (below) and Note 13. Revenues

License Agreements

The Company generates revenue from license or similar agreements with pharmaceutical companies for the development and commercialization of certain products. Such agreements may include the transfer of intellectual property rights in the form of licenses. Payments made by the customer may include non-refundable upfront fees, payments based upon the achievement of defined milestones and royalties on sales of products.

If a license to the Company's intellectual property is determined to be distinct from the other performance obligations identified in the arrangement, the Company recognizes the transaction price allocated to the license as revenue upon transfer of control of the license. All other promised goods or services in the agreement are evaluated to determine if they are distinct. If they are not distinct, they are combined with other promised goods or services to create a bundle of promised goods or services that is distinct. Optional future services where any additional consideration paid to the Company reflects their standalone selling prices do not provide the customer with a material right, and, therefore, are not considered performance obligations. If optional future services are priced in a manner which provides the customer with a significant or incremental discount, they are material rights, and are accounted for as separate performance obligations.

Contingent milestones at contract inception are estimated to the extent that it is probable that a significant revenue reversal would not occur and are included in the transaction price using the most likely amount method. Milestone payments that are not within the Company's control, such as regulatory approvals, are not considered probable of being achieved until those approvals are received, and, therefore, the variable consideration is constrained. The transaction price is then allocated to each performance obligation on a relative stand-alone selling price basis, for which the Company recognizes revenue as or when the performance obligations under the contract are satisfied. At the end of each reporting period, the Company re-evaluates the probability of achieving development or sales-based milestone payments that a significant revenue reversal would not occur and, if necessary, adjusts the estimate of the overall transaction price. Any such adjustments are recorded on a cumulative catch-up basis, which would affect license and other revenue, as well as earnings, in the period of adjustment.

For arrangements that include sales-based royalties, including sales-based milestone payments, and a license of intellectual property that is deemed to be the predominant item to which the royalties relate, revenue is recognized at the later of (i) when the related sales occur, or (ii) when the performance obligation to which some or all of the royalties have been allocated has been satisfied (or partially satisfied).

Reserves for Variable Consideration

Revenues from product sales are recorded net of reserves for variable consideration. These reserves reflect the Company's best estimate of the amount of consideration to which the Company is entitled based on the terms of the contracts. The Company sells Sunosi and Auvelity in the United States to wholesale distributors with whom the Company has entered into formal agreements (collectively, the "Distributors"). These Distributors subsequently resell the Company's products to retail pharmacies. The Company sells Sunosi, on a product supply basis, to Pharmanovia, and Sunosi is subsequently sold within the licensed territories. The Company does not sell products under consignment arrangements, and the collection of proceeds from product sales is not contingent upon customers' sale of the goods to third parties. See Note 13. Revenues for a further break-out of product sales, net, for the three and six months ended June 30, 2024 and 2023.

Reserves for Variable Consideration

The Company's estimates of variable consideration and determination of whether to include estimated amounts in the transaction price are based largely on an assessment of its anticipated performance and all information (historical, current and forecasted) that is reasonably available. These reserves reflect the Company's best estimate of the amount of consideration to which the Company is entitled based on the terms of the contracts and are classified as reductions to accounts receivables, net if payable to a customer or accrued expenses and other current liabilities if payable to a third party. The amount of variable consideration that is included in the transaction price may be constrained and is included in the net sales price only to the extent that is considered probable that a significant reversal in the amount of the cumulative revenue recognized will not occur in a future period. Actual amounts of consideration ultimately received may differ from the estimates. If actual results in the future vary from our estimates, the Company will adjust these estimates, which would affect net product revenue and earnings in the period such variances become known.

The provision for rebates, discounts, and other incentives is based on expected patient usage, as well as inventory levels in the distribution channel to determine the contractual obligation to the benefit providers. Additionally, sales are generally made with a limited right of return under certain conditions. Revenues are recorded net of provisions for rebates, discounts, and other incentives and returns, which are established at the time of sale. The Company uses customer segment utilization mix data, changes to product price, government pricing calculations and prior payment history in order to estimate the variable consideration. Amounts accrued for rebates, discounts, and other incentives are adjusted when trends indicate that adjustment is appropriate and to reflect actual experience.

Trade Discounts and Allowances

The Company generally provides discounts which include incentive fees that are explicitly stated in the Company's contracts and are recorded as a reduction of revenue in the period the related product revenue is recognized. In addition, the Company compensates (through trade discounts and allowances) its distributors for distribution services and data. These payments have been recorded as a reduction to product sales as well as a reduction to accounts receivables, net on the consolidated balance sheets.

Product Returns

The Company generally offers a limited right of return for product that has been purchased from the Company based on the product's expiration date. The Company estimates the amount of its product sales that may be returned and records this estimate as a reduction of revenue in the period the related product sale is recognized, as well as a component of accrued expense and other current liabilities. The Company currently estimates product return liabilities using available industry data, historical product sales information, and actual returns experience.

Chargebacks and Discounts

Chargebacks for fees and discounts to providers represent the estimated obligations resulting from contractual commitments to sell products at prices lower than the list prices charged to distributors. Distributors charge the Company for the difference between what they pay for the product and the ultimate selling price. These reserves are established in the same period that the related product sales are recognized, resulting in a reduction to product sales and accounts receivables, net.

Rebates

The Company currently estimates product return liabilities using available industry data, historical product sales information, and actual returns experience.

size:10pt;font-family:Times New Roman;min-width:fit-content;"> Rebates apply to: Medicaid, managed care, and supplemental rebates to all applicable states as defined by the statutory government pricing calculation requirements under the Medicaid Drug Rebate Program. Tricare rebates to the TRICARE third-party administrator are based on the statutory calculation defined in the agreement with the Defense Health Agency. Part D and Commercial Managed Care rebates are paid based on the contracts with Pharmacy Benefit Managers ("PBM's") and Managed Care Organizations. Rebates are paid to these entities upon receipt of an invoice from the contracted entity which is based on the utilization of the product by the members of the contracted entity. Allowances for rebates also include amounts due under the Inflation Reduction Act of 2022 for Medicare Part D. The Company estimates these rebates and records such estimates in the same period the related product sales are recognized, resulting in a reduction to product sales as well as a component of accrued expenses and other current liabilities.</p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;"> Coverage Gap The Medicare Part D coverage gap is a period of consumer payment for prescription medication costs which lies between the initial coverage limit and the catastrophic coverage threshold, when the patient is a member of a Medicare Part D prescription drug program administered by the Centers for Medicare & Medicaid Services. The Company estimates the percentage of goods sold to patients in the Coverage Gap and adjusts the transaction price for such discount at the time of sale resulting in a reduction to product sales as well as a component of accrued expenses and other current liabilities.</p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;"> Other Incentives Other incentives which the Company offers include voluntary patient assistance programs, such as the co-pay assistance program, which are intended to provide financial assistance to qualified commercially-insured patients with prescription drug co-payments required by payers. The calculation of the accrual for co-pay assistance is based on an estimate of claims and the cost per claim that the Company expects to receive associated with product that has been recognized as revenue. The reserves are recorded in the same period the related revenue is recognized, resulting in a reduction of product sales as well as a component of accrued expenses and other current liabilities.</p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;"> The Company makes significant estimates and judgments that materially affect its recognition of net product revenue. Claims by third-party payors for rebates, chargebacks and discounts frequently are submitted to the Company significantly after the related sales, potentially resulting in adjustments in the period in which the new information becomes known. The Company will adjust its estimates based on new information, including information regarding actual rebates, chargebacks and discounts for its products, as it becomes available.</p><div style="font-size:10pt;font-family:Times New Roman;"><p style="font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;"> Cost of Revenue </p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;"> The Company's cost of revenue consists of cost of product sales and a fee sharing expense related to the upfront license revenue received. Cost of product sales primarily include direct costs (inclusive of material, shipping, handling, and manufacturing costs), overhead and product royalties. Cost of product sales excludes depreciation and amortization. In the first quarter of 2023, the Company recorded a 5.0 million fee sharing expense related to the upfront license revenue received. </p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;"> The Company assumed royalty and sales-based milestone commitments of Jazz to SK Biopharmaceuticals Co. Ltd. ("SK") and Aerial Biopharma, LLC ("Aerial"). SK is the originator of Sunosi and retains rights in 165 million based on revenue milestones and 1 million based on development milestones. Additionally, the Company pays a royalty to Antecip Bioventures II LLC ("Antecip"), an entity owned by Axsome's Chief Executive Officer and Chairman of the Board of Directors (the "Board"). Herriot Tabuteau, M.D., equal to 3.0 % of Auvelity net sales. </p></div><div style="font-size:10pt;font-family:Times New Roman;"><p style="font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;"> Foreign Currency Translation </p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;"> Revenues and expenses denominated in foreign currency are translated into U.S. dollars at the exchange rate on the date they are incurred. Assets and liabilities of foreign operations are translated at period-end exchange rates. The effect of exchange rate fluctuations on translating foreign currency into U.S. dollars is included in the Statements of Operations and is not material to the Company's consolidated financial statements. </p></div><div style="font-size:10pt;font-family:Times New Roman;"><p style="font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;"> Segment Information </p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;"> Operating segments are defined as components of an enterprise for which separate discrete information is available for evaluation by the chief operating decision maker or decision-making group in deciding how to allocate resources and in assessing performance. The Company views its operations and manages its business as one operating segment and reporting unit, which is the business of developing and delivering novel therapies for the management of CNS disorders. </p></div><div style="font-size:10pt;font-family:Times New Roman;"><p style="font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;"> Cash and Cash Equivalents </p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;"> The Company considers all highly liquid investments that have maturities of three months or less when acquired to be cash equivalents. The Company's cash and cash equivalents includes holdings in checking and overnight sweep accounts. The Company's cash equivalents, which are money market funds held in a sweep account, are measured at fair value on a recurring basis. As of June 30, 2024, the balance of cash and cash equivalents was 315.7 million, which approximates fair value and was determined based upon Level 1 inputs. The sweep account is valued using quoted market prices with no valuation adjustments applied. Accordingly, these securities are categorized as Level 1 on the fair value hierarchy. </p></div><div style="font-size:10pt;font-family:Times New Roman;"><p style="font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;"> Concentration of Risk </p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;"> Concentration of Credit Risk Financial instruments that potentially subject the Company to a concentration of credit risk consist of cash and cash equivalents. The Company maintains its cash deposits at financial institutions, which cash deposits exceed insured limits. At June 30, 2024 the majority of the Company's cash was held by two financial institutions and amounts on deposit were in excess of government-provided insurance limits. The Company places its cash and cash equivalents in what it believes to be high credit quality banks and money market funds and has not recognized any losses from credit risks on such accounts since inception. See Accounts Receivables, net below for further information. </p></div><div style="font-size:10pt;font-family:Times New Roman;"><p style="font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;"> Concentration of Risk, Other Concentration of Risk. Other The Company has a limited number of contract manufacturers for its products. At times, the Company may have only one manufacturer or supplier for its products. </p></div><div style="font-size:10pt;font-family:Times New Roman;"><p style="font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;"> Business Combination </p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;"> The Company accounted for the Acquisition as a business combination using the acquisition method of accounting, which requires that all identifiable assets acquired, and liabilities assumed be recorded at their estimated fair values. The excess of the fair value of purchase consideration over the fair values of identifiable assets and liabilities is recorded as goodwill. When determining the fair values of assets acquired and liabilities assumed, management makes significant estimates and assumptions. Critical estimates in valuing the intangible asset include but are not limited to future expected cash flows from acquired patented technology. Management's estimates of fair value are based upon assumptions believed to be reasonable, but are inherently uncertain and unpredictable and, as a result, actual results may differ from estimates. </p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;"> As a result of the Acquisition, the Company recorded goodwill and an intangible asset. </p><p style="font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;"> Goodwill </p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;"> Goodwill is deemed to have an indefinite life and therefore not amortized. The Company tests the carrying amounts of goodwill for recoverability on an annual basis or more frequently if events or changes in circumstances indicate that the asset might be impaired. When reviewing goodwill for impairment, the Company first evaluates the qualitative factors to determine whether it is more likely than not that the fair value of a reporting unit is less than its carrying amount. If the qualitative factors determine it is necessary to complete a goodwill impairment test, the fair value of the relevant reporting unit is determined and compared to its carrying value. If the fair value is greater than the carrying value, then the carrying value is deemed to be recoverable, and no further action is required. If the fair value estimate is less than the carrying value, goodwill is considered impaired for the amount by which the carrying amount exceeds the reporting unit's fair value, and a charge is reported in impairment of goodwill in the Company's consolidated statements of operations. The Company completes its annual goodwill assessment as of December 31. As of June 30, 2024 the Company has determined that it has one reporting unit. The Company has not identified any events or changes in circumstances that indicate the existence of potential impairment of goodwill during the six months ended June 30, 2024. The balance of goodwill at June 30, 2024 and December 31, 2023 remains unchanged at 12.0 million. </p><p style="font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;"> </p></div></div></div>

family:Times New Roman;font-style:italic;min-width:fit-content;"/>Intangible Asset</p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">The Company's intangible asset is amortized using the straight-line method over its estimated period of benefit of ten years. The Company evaluates recoverability of the intangible asset periodically by considering events or changes in circumstances that may warrant revised estimates of useful lives or that indicate the asset may be impaired. The Company has not identified any events or changes in circumstances that indicate the existence of potential impairment of the intangible asset during the six months ended June 30, 2024.</p></div><div style="font-size:10pt;font-family:Times New Roman;"><p style="font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:justify;">Contingent Consideration</p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">Consideration paid in a business combination may include potential future payments that are contingent upon the acquired business achieving certain milestones in the future ("contingent consideration"). The royalty payments due to Jazz are a high single-digit royalty on the Company's U.S. net sales of Sunosi in the current indication and a mid-single-digit royalty on the Company's U.S. net sales of Sunosi for future indications. Contingent consideration liabilities are measured at their estimated fair value as of the date of acquisition, with subsequent changes in fair value recorded in the consolidated statements of operations during such period a change is recognized. The Company estimates the fair value of the contingent consideration as of the acquisition date and reporting periods thereafter using the probability-weighted income approach and makes significant assumptions, including estimated future sales of Sunosi in current and future indications, timing of regulatory and commercial milestone achievements, probability of technical and regulatory success rates, and discount rates. Contingent consideration liabilities expected to be settled within 12 months after the balance sheet date are presented in current liabilities, with the non-current portion recorded within total liabilities in the consolidated balance sheets.</p></div><div style="font-size:10pt;font-family:Times New Roman;"><p style="font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">Fair Value Measurements</p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">Fair value is defined as the exchange price that would be received for an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants at the measurement date. Assets and liabilities that are measured at fair value are reported using a three-level fair value hierarchy that prioritizes the inputs used to measure fair value. This hierarchy maximizes the use of observable inputs and minimizes the use of unobservable inputs. The three levels of inputs used to measure fair value are as follows:</p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">Level 1—Quoted prices in active markets for identical assets or liabilities that the Company has the ability to access at the measurement date.</p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">Level 2—Inputs other than quoted prices in active markets that are observable for the asset or liability, either directly or indirectly.</p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">Level 3—Unobservable inputs for which there is little or no market data, which require the reporting entity to develop its own assumptions.</p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">To the extent that valuation is based on models or inputs that are less observable or unobservable in the market, the determination of fair value requires more judgment. Accordingly, the degree of judgment exercised by the Company in determining fair value is greatest for instruments categorized in Level 3. An asset's or liability's level within the fair value hierarchy is based on the lowest level of any input that is significant to the fair value measurement.</p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">The Company's financial instruments are cash and cash equivalents, accounts receivable, accounts payable, accrued expenses and other liabilities, contingent warrant liability, current and long-term debt, and current and non-current contingent consideration. The Company's Level 1 financial instruments include cash and cash equivalents, accounts receivable, accounts payable, and accrued expenses and other liabilities. They are considered Level 1 as the carrying values reported in the accompanying consolidated financial statements approximate their respective fair values due to their short-term maturities. The carrying value of debt on the Company's balance sheet is estimated to approximate its fair value. The Company's Level 3 financial instruments include contingent warrant liability and current and non-current contingent consideration due to the significant unobservable inputs required in determining their respective fair values.</p><p style="color:#000000;white-space:pre-wrap;font-size:10pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">The Company categorized the fair value of contingent consideration liabilities as Level 3 within the fair value hierarchy as the estimate is based on significant unobservable inputs requiring management judgment. The fair value of contingent consideration liabilities is estimated by using the probability-weighted income approach using significant assumptions, including estimated future sales of Sunosi in current and future indications, timing of regulatory and commercial milestone achievements, probability of technical and regulatory success and discount rates. Contingent consideration liabilities are subject to remeasurement at each prospective balance sheet date, with any changes in the fair value recorded in the consolidated statements of operations. See Note 6, Fair Value of Financial Instruments for further detail.</p><p style="color:#000000;white-space:pre-wrap;font-size:10pt;font-family:Times New Roman;min-width:fit-content;"></p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">The Company estimated the fair value of the warrant liabilities using the Black-Scholes model based on key assumption and inputs. The Company utilizes a probability assessment to estimate the likelihood of vesting for the remaining Loan Agreement (as defined below) warrants and allocated the probability of occurrence percentage to the fair values calculated, and, therefore, is considered Level 3 within the fair value hierarchy. The Company accounts for warrants anticipated to be issued in the future under the Loan Agreement as liabilities and measures them at fair value using the Black-Scholes valuation model. The warrants are subject to remeasurement at each prospective balance sheet date, with any changes in the fair value recorded in the consolidated statements of operations. See Note 6, Fair Value of Financial Instruments.</p></div><div style="font-size:10pt;font-family:Times New Roman;"><p style="font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">Accounts Receivable, net</p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">The Company's accounts receivable, net, arise from product sales and represent amounts due from its customers. They are generally stated at the gross sales amount, less reserves resulting from trade discounts and allowances and chargebacks. Accounts receivables typically have a standard payment term of 60 days or less.</p><p style="color:#000000;white-space:pre-wrap;font-size:10pt;font-family:Times New Roman;min-width:fit-content;">do not bear interest.</p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">The Company monitors the financial performance and creditworthiness of its customers so that it can properly assess and respond to changes in the customers' credit profiles. During the first quarter of 2023, the Company began distributing products through wholesale customers. The Company estimates expected credit losses of its accounts receivable by assessing the risk of loss and available relevant information about collectability, including historical credit losses, existing contractual payment terms, actual payment patterns of its customers, individual customer circumstances, and reasonable and supportable forecast of economic conditions expected to exist throughout the contractual life of the receivable. The Company has not historically experienced significant credit losses. Based on its assessment, as of June 30, 2024,</p><p style="color:#000000;white-space:pre-wrap;font-size:10pt;font-family:Times New Roman;min-width:fit-content;">the Company has no allowances for doubtful accounts receivable.</p><p style="color:#000000;white-space:pre-wrap;font-size:10pt;font-family:Times New Roman;min-width:fit-content;">For further information about accounts receivable, see Note 3, Accounts Receivable, net.</p></div><div style="font-size:10pt;font-family:Times New Roman;"><p style="font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">Debt Issuance Costs</p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">Debt issuance costs consist of costs incurred in obtaining long-term financing. These costs are classified on the consolidated balance sheet as a direct deduction from the carrying amount of the related debt liability. These expenses are deferred and amortized as part of interest expense in the consolidated statement of operations using the effective interest rate method over the term of the debt agreement.</p></div><div style="font-size:10pt;font-family:Times New Roman;"><p style="font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">Inventory</p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">Inventory levels are evaluated for amounts that would be sold within one year. If the level of inventory exceeds the estimated amount that would be sold beyond the next 12 months, the Company classifies the estimate of such inventory as non-current.</p></div><div style="font-size:10pt;font-family:Times New Roman;"><p style="font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">Equipment, net</p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">Equipment consists primarily of computer equipment and is recorded at cost. Equipment is depreciated on a straight-line basis over its estimated useful life, which the Company estimates to be three years.</p><p style="color:#000000;white-space:pre-wrap;font-size:10pt;font-family:Times New Roman;min-width:fit-content;">When equipment is sold or otherwise disposed of, the cost and related accumulated depreciation are removed from the accounts and the resulting gain or loss is included in operating expenses.</p></div><div style="font-size:10pt;font-family:Times New Roman;"><p style="font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">Research and Development Costs</p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">Research and development costs are expensed as incurred. Research and development expenses consist primarily of employee-related expenses, including salaries, benefits, travel and stock-based compensation expense, contract services, costs incurred to third-party service providers for conducting research, preclinical and clinical studies, laboratory supplies, product license fees, consulting and other related expenses. Research, preclinical and clinical study expenses are estimated based on services performed, pursuant to contracts with third-party research and development organizations that

conduct and manage research, preclinical and clinical activities on the Company's behalf, including discussions with internal management personnel and external service providers as to the progress or stage of completion of services and the contracted fees to be paid for such services. If the actual timing of the performance of services or the level of effort varies from the original estimates, accruals are adjusted accordingly. Payments associated with licensing agreements to acquire licenses to develop, use, manufacture and commercialize products that have not reached technological feasibility and do not have alternative future use are expensed as incurred.

Advertising Costs

Advertising costs are included in selling, general and administrative expenses and are expensed as incurred. The Company considers advertising costs as expenses related to the promotion of the Company's commercial products. For the three and six months ended June 30, 2024 and 2023, advertising costs were \$3.3 million and \$5.3 million, respectively. For the three and six months ended June 30, 2024 and 2023, advertising costs were \$3.3 million and \$5.3 million, respectively. For the three and six months ended June 30, 2024 and 2023, advertising costs were \$3.3 million and \$5.3 million, respectively.

Income Taxes

Income taxes are accounted for under the asset and liability method. Under this method, deferred tax assets and liabilities are recognized for the future tax consequences attributable to the differences between the financial statement carrying amounts of existing assets and liabilities and their respective tax bases, operating losses, and tax credit carryforwards. Deferred tax assets and liabilities are measured using enacted tax rates expected to apply to taxable income in the years in which those temporary differences are expected to be recovered or settled. The effect of a change in tax rates on deferred tax assets and liabilities is recognized in income in the period that includes the enactment date. Valuation allowances are provided if, based upon the weight of available evidence, it is more likely than not that some or all of the deferred tax assets will not be realized.

The Company estimates an annual effective tax rate of 0% for the year ending December 31, 2024 and has no deferred tax assets and liabilities as of June 30, 2024. The Company recognizes the tax benefit from an uncertain tax position only if it is more likely than not to be sustained upon examination based on the technical merits of the position as well as consideration of the available facts and circumstances. When uncertain tax positions exist, the Company recognizes the tax benefit of tax positions to the extent that the benefit will more likely than not be realized. As of June 30, 2024, the Company does not believe any material uncertain tax positions are present. In the event the Company determines that accrual of interest or penalties are necessary in the future, the amount will be presented as a component of income tax expense.

Stock-Based Compensation

For stock options issued, the Company estimates the grant date fair value of each option using the Black-Scholes option pricing model. The Black-Scholes model takes into account the expected volatility of the Company's common stock, the risk-free interest rate, the estimated life of the option, the closing market price of the Company's common stock and the exercise price. The estimates utilized in the Black-Scholes calculation involve inherent uncertainties and the application of management's judgment. In addition, the Company recognizes expense for equity award forfeitures as they occur.

For restricted stock units ("RSUs"), the Company issues them in the form of Company common stock. The fair market value of these awards is based on the market closing price per share on the grant date.

The Company recognizes the grant date fair value of the stock options and RSUs over the requisite service period, which is generally the vesting term. For awards only subject to service-based vesting conditions, the Company elected to recognize stock-based compensation expense on a straight-line basis. For awards subject to performance-based vesting conditions, the Company recognizes stock-based compensation expense using the accelerated attribution method when the achievement of the performance condition becomes probable. The expense related to the stock-based compensation is recorded within the same financial statement line item as the grantee's cash compensation.

The Company's policy upon exercise of stock options and RSUs is that shares will be issued as new shares drawing on the Company's 2015 Omnibus Incentive Compensation Plan share pool that was adopted by the stockholders in November 2015.

Basic and Diluted Net Loss per Common Share

Basic net loss per share of common stock is computed by dividing net loss by the weighted average number of shares of common stock outstanding during the period. Diluted net loss per share of common stock includes the effect, if any, from the potential exercise or conversion of securities, such as warrants, stock options, RSUs and/or common stock pursuant to the 2023 Employee Stock Purchase Plan (the "ESPP"), which would result in the issuance of incremental shares of common stock. As the impact of these items is anti-dilutive during periods of net loss, there was no difference between basic and diluted net loss per share of common stock for the three and six months ended June 30, 2024 and 2023.

Leases

The Company determines if an arrangement is a lease at contract inception. Right-of-use assets represent the Company's right to use an underlying asset for the lease term and lease liabilities represent the Company's obligation to make lease payments arising from the lease. When evaluating whether a contract contains a lease, the Company considers whether (1) the contract explicitly or implicitly identifies assets that are contractually defined and (2) the Company obtains substantially all of the economic benefits from the use of that underlying asset and directs how and for what purpose the asset is used during the term of the contract.

The Company's lease agreements contain lease and non-lease components. Non-lease components primarily include payments for maintenance and utilities. The Company has applied the practical expedient to combine fixed payments for non-lease components with lease payments and account for them together as a single lease component, which increases the amount of lease assets and corresponding liabilities. Payments under the Company's lease arrangements are primarily fixed, however, variable payments are expensed as incurred and not included in the operating lease asset and liability.

Lease assets and liabilities are recognized at the commencement date of the lease based upon the present value of lease payments over the lease term. When determining the lease term, the Company includes options to extend or terminate the lease when it is reasonably certain that the Company will exercise that option. The Company uses the interest rate implicit in the contract when such rate is readily determinable and uses the Company's incremental borrowing rate when the rate implicit in the contract is not readily determinable based upon the information available at the commencement date in determining the present value of the lease payments.

The Company's operating leases are reflected in the right-of-use operating asset; operating lease liability; current portion; and operating lease liability; long-term portion in the Company's consolidated balance sheets. Operating lease expense is recognized on a straight-line basis over the lease term and included in selling, general and administrative expenses. Finance leases are included in the non-current inventory and other assets; accrued expenses and other current liabilities; and finance lease liability; long-term in the Company's consolidated balance sheets. Assets under the finance leases are amortized on a straight-line basis over the lease term.

and included in selling, general and administrative expenses. Short-term leases, defined as leases that have a lease term of 12 months or less at the commencement date, and do not include an option to extend the term or purchase the underlying asset that the Company is reasonably certain to exercise, are excluded from this treatment and are recognized on a straight-line basis over the term of the lease.

Recent Accounting Pronouncements

In November 2023, the Financial Accounting Standards Board ("FASB") issued Accounting Standards Update ("ASU") 2023-07, Segment reporting, which requires disclosure of incremental segment information on an annual and interim basis. The standard is effective for years beginning after December 15, 2023 and interim periods beginning after December 15, 2024, and early adoption is permitted. The Company is currently evaluating the effect of adopting this guidance on its consolidated financial statements.

In December 2023, the FASB issued ASU 2023-09, Improvements to income tax disclosures, which requires disclosure of disaggregated income taxes paid by jurisdiction, enhances disclosures in the effective tax rate reconciliation, and modifies other income tax-related disclosures. The amendments are effective for annual periods beginning after December 15, 2024. The Company is currently evaluating the effect of adopting this guidance on its consolidated financial statements.

Significant Risks and Uncertainties

The Company's operations are subject to a number of factors that can affect its operating results and financial condition. Such factors include, but are not limited to: the results of clinical testing and trial activities of the Company's product candidates; the Company's ability to obtain regulatory approval to market its products; competition from products manufactured and sold or being developed by other companies; the price of, and demand for, the Company's products; the Company's ability to negotiate favorable licensing or other manufacturing and marketing agreements for its products; and the Company's ability to raise additional capital. If the Company's commercialization of its products is not financially successful, it will be unable to generate sufficient recurring product revenue to achieve and maintain profitability.

family:Times New Roman;margin-bottom:0;text-align:left;">The Company currently has two commercially approved products, Auvelity and Sunosi, and there can be no assurance that the Company's research and development efforts will result in successfully commercialized products in addition to Auvelity and Sunosi. Developing and commercializing a product requires significant time and capital and is subject to regulatory review and approval as well as competition from other biotechnology and pharmaceutical companies. The Company operates in an environment of rapid change and is dependent upon the continued services of its employees and consultants and obtaining and protecting intellectual property.</p><p style="font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">Use of Estimates</p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">Management considers many factors in developing the estimates and assumptions that are used in the preparation of these financial statements. Management must apply significant judgment in this process. In addition, other factors may affect estimates, including expected business and operational changes, sensitivity and volatility associated with the assumptions used in developing estimates, and whether historical trends are expected to be representative of future trends. The estimation process often may yield a range of potentially reasonable estimates of ultimate future outcomes, and management must select an amount that falls within that range of reasonable estimates. This process may result in actual results differing materially from those estimated amounts used in the preparation of the financial statements if these results differ from historical experience, or other assumptions do not turn out to be substantially accurate, even if such assumptions are reasonable when made. In preparing these financial statements, management used significant estimates in the following areas, among others: stock-based compensation expense; determination of fair value of warrants; accounting for research and development costs; accounting for acquisitions; impairments of goodwill and the intangible asset; determination of fair value of contingent consideration; chargebacks, cash discounts, sales rebates, returns and other adjustments; and the recoverability of the Company's net deferred tax assets and related valuation allowance.</p><p style="font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">Revenue Recognition</p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">In accordance with Accounting Standards Codification ("ASC") Topic 606, Revenue from Contracts with Customers ("ASC 606") the Company recognizes revenue when the customer obtains control of a promised good or service, in an amount that reflects the consideration that the Company expects to receive in exchange for the good or service. Transfer of control is based on contractual performance obligations, which occurs upon transfer of the title along with the physical transfer of the Company's goods to the customer, as that is when the customer has obtained control of significantly all of the economic benefits and the Company obtains a right of payment.</p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">To determine revenue recognition for arrangements that the Company determines are within the scope of ASC 606, the Company performs the following five steps: (i) identify the contract(s) with a customer, (ii) identify the performance obligations in the contract, (iii) determine the transaction price, (iv) allocate the transaction price to the performance obligations in the contract, and (v) recognize revenue when (or as) the entity satisfies a performance obligation. The Company only applies the five-step model to arrangements that meet the definition of a contract under ASC 606, including when it is probable that the Company will collect the consideration it is entitled to in exchange for the goods or services it transfers to the customer. At contract inception, once the contract is determined to be within the scope of ASC 606, the Company assesses the goods or services promised within each contract and determines those that are performance obligations and assesses whether each promised good or service is distinct. The Company then recognizes as revenue the amount of the transaction price that is allocated to the respective performance obligation when (or as) the performance obligation is satisfied. For a complete discussion of accounting for product sales, see Product Sales, net (below) and Note 13. Revenues.</p><p style="color:#000000;white-space:pre-wrap;font-size:10pt;font-family:Times New Roman,min-width:fit-content;">License Agreements</p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">The Company generates revenue from license or similar agreements with pharmaceutical companies for the development and commercialization of certain products. Such agreements may include the transfer of intellectual property rights in the form of licenses. Payments made by the customer may include non-refundable upfront fees, payments based upon the achievement of defined milestones and royalties on sales of products.</p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">If a license to the Company's intellectual property is determined to be distinct from the other performance obligations identified in the arrangement, the Company recognizes the transaction price allocated to the license as revenue upon transfer of control of the license. All other promised goods or services in the agreement are evaluated to determine if they are distinct. If they are not distinct, they are combined with other promised goods or services to create a bundle of promised goods or services that is distinct. Optional future services where any additional consideration paid to the Company reflects their standalone selling prices do not provide the customer with a material right, and, therefore, are not considered performance obligations. If optional future services are priced in a manner which provides the customer with a significant or incremental discount, they are material rights, and are accounted for as separate performance obligations.</p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">Contingent milestones at contract inception are estimated to the extent that it is probable that a significant revenue reversal would not occur and are included in the transaction price using the most likely amount method. Milestone payments that are not within the Company's control, such as regulatory approvals, are not considered probable of being achieved until those approvals are received, and, therefore, the variable consideration is constrained. The transaction price is then allocated to each performance obligation on a relative standalone selling price basis, for which the Company recognizes revenue as or when the performance obligations under the contract are satisfied. At the end of each reporting period, the Company re-evaluates the probability of achieving development or sales-based milestone payments that a significant revenue reversal would not occur and, if necessary, adjusts the estimate of the overall transaction price. Any such adjustments are recorded on a cumulative catch-up basis, which would affect license and other revenue, as well as earnings, in the period of adjustment.</p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">For arrangements that include sales-based royalties, including sales-based milestone payments, and a license of intellectual property that is deemed to be the predominant item to which the royalties relate, revenue is recognized at the later of (i) when the related sales occur, or (ii) when the performance obligation to which some or all of the royalties have been allocated has been satisfied (or partially satisfied).</p><p style="font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">Product Sales, net</p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">Revenues from product sales are recorded net of reserves for variable consideration. These reserves reflect the Company's best estimate of the amount of consideration to which the Company is entitled based on the terms of the contracts. The Company sells Sunosi and Auvelity in the United States to wholesale distributors with whom the Company has entered into formal agreements (collectively, the "Distributors"). These Distributors subsequently resell the Company's products to retail pharmacies. The Company sells Sunosi, on a product supply basis, to Pharmanovia, and Sunosi is subsequently sold within the licensed territories. The Company does not sell products under consignment arrangements, and the collection of proceeds from product sales is not contingent upon customers' sale of the goods to third parties. See Note 13. Revenues for a further breakout of product sales, net, for the three and six months ended June 30, 2024 and 2023.</p><p style="font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">Reserves for Variable Consideration</p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">The Company's estimates of variable consideration and determination of whether to include estimated amounts in the transaction price are based largely on an assessment of its anticipated performance and all information (historical, current and forecasted) that is reasonably available. These reserves reflect the Company's best estimate of the amount of consideration to which the Company is entitled based on the terms of the contracts and are classified as reductions to accounts receivables, net if payable to a customer or accrued expenses and other current liabilities if payable to a third-party. The amount of variable consideration that is included in the transaction price may be constrained and is included in the net sales price only to the extent that is considered probable that a significant reversal in the amount of the cumulative revenue recognized will not occur in a future period. Actual amounts of consideration ultimately received may differ from the estimates. If actual results in the future vary from our estimates, the Company will adjust these estimates, which would affect net product revenue and earnings in the period such variances become known.</p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">The provision for rebates, discounts, and other incentives is based on expected patient usage, as well as inventory levels in the distribution channel to determine the contractual obligation to the benefit providers. Additionally, sales are generally made with a limited right of return under certain conditions. Revenues are recorded net of provisions for rebates, discounts, and other incentives and returns, which are established at the time of sale. The Company uses customer segment utilization mix data, changes to product price, government pricing calculations and prior payment history in order to estimate the variable consideration. Amounts accrued for rebates, discounts, and other incentives are adjusted when trends indicate that adjustment is appropriate and to reflect actual experience.</p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">Trade Discounts and Allowances</p><p style="color:#000000;white-space:pre-wrap;font-size:10pt;font-family:Times New Roman,min-width:fit-content;">The Company generally provides discounts which include incentive fees that are explicitly stated in the Company's contracts and are recorded as a reduction of revenue in the period the related product revenue is recognized. In addition, the Company compensates (through trade discounts and allowances) its distributors for distribution services and data. These payments have been recorded as a reduction to product sales as well as a reduction to accounts receivables, net on the consolidated balance sheets.</p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">Product Returns</p><p style="color:#000000;white-space:pre-wrap;font-size:10pt;font-family:Times New Roman,min-width:fit-content;">The Company generally offers a limited right of return for product that has been purchased from the Company based on the product's expiration date. The Company estimates the amount of its product sales that may be returned and records this estimate as a reduction of revenue in the period the related product sale is recognized, as well as a component of accrued expense and other current liabilities. The Company currently estimates product return liabilities using available industry data, historical product sales information, and actual returns experience.</p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">Chargebacks and Discounts</p><p style="color:#000000;white-space:pre-wrap;font-size:10pt;font-family:Times New Roman,min-width:fit-content;">Chargebacks for fees and discounts to providers represent the estimated obligations resulting from contractual commitments to sell products at prices lower than the list prices charged to distributors. Distributors charge the Company for the difference between what they pay for the product and the ultimate selling price. These reserves are established in the same period that the related product sales are recognized, resulting in a reduction to product sales and accounts receivables, net.</p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">Rebates</p><p style="color:#000000;white-space:pre-wrap;font-size:10pt;font-family:Times New Roman,min-width:fit-content;">Rebates apply to Medicaid, managed care, and supplemental rebates to all applicable states as defined by the statutory government pricing calculation requirements under the Medicaid Drug Rebate Program. Tricare rebates to the TRICARE third-party administrator are based on the statutory calculation defined in the agreement with the Defense Health Agency. Part D and Commercial Managed Care rebates are paid based on the contracts with Pharmacy Benefit Managers ("PBM") and Managed Care Organizations. Rebates are paid to these entities upon receipt of an invoice from the contracted entity which is based on the utilization of the product by the members of the contracted entity. Allowances for rebates also include amounts due under the Inflation Reduction Act of 2022 for Medicare Part D. The Company estimates these rebates and records such estimates in the same period the related product sales are recognized, resulting in a reduction to product sales as well as a component of accrued expenses and other current liabilities.</p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">Coverage Gap</p><p style="color:#000000;white-space:pre-wrap;font-size:10pt;font-family:Times New Roman,min-width:fit-content;">The Medicare Part D coverage gap is a period of consumer payment for prescription medication costs which lies between the initial coverage limit and the catastrophic coverage threshold, when the patient is a member of a Medicare Part D prescription drug program administered by the Centers for Medicare & Medicaid

Services. The Company estimates the percentage of goods sold to patients in the Coverage Gap and adjusts the transaction price for such discount at the time of sale resulting in a reduction to product sales as well as a component of accrued expenses and other current liabilities.

Other Incentives

Other incentives which the Company offers include voluntary patient assistance programs, such as the co-pay assistance program, which are intended to provide financial assistance to qualified commercially-insured patients with prescription drug co-payments required by payers. The calculation of the accrual for co-pay assistance is based on an estimate of claims and the cost per claim that the Company expects to receive associated with product that has been recognized as revenue. The reserves are recorded in the same period the related revenue is recognized, resulting in a reduction of product sales as well as a component of accrued expenses and other current liabilities.

The Company makes significant estimates and judgments that materially affect its recognition of net product revenue. Claims by third-party payors for rebates, chargebacks and discounts frequently are submitted to the Company significantly after the related sales, potentially resulting in adjustments in the period in which the new information becomes known. The Company will adjust its estimates based on new information, including information regarding actual rebates, chargebacks and discounts for its products, as it becomes available.

Cost of Revenue

In the first quarter of 2023, the Company recorded a \$5.0 million fee sharing expense related to the upfront license revenue received.

The Company's cost of revenue consists of cost of product sales and a fee sharing expense related to the upfront license revenue received. Cost of product sales primarily include direct costs (inclusive of material, shipping, handling, and manufacturing costs), overhead and product royalties. Cost of product sales excludes depreciation and amortization.

In the first quarter of 2023, the Company recorded a \$12.0 million based on revenue milestones and \$1 million based on development milestones. Additionally, the Company pays a royalty to Antecip Bioventures II LLC ("Antecip"), an entity owned by Axsome's Chief Executive Officer and Chairman of the Board of Directors (the "Board"). Herriot Tabuteau, M.D., equal to \$3.0 million based on revenue milestones and \$1 million based on development milestones.

Foreign Currency Translation

Revenues and expenses denominated in foreign currency are translated into U.S. dollars at the exchange rate on the date they are incurred. Assets and liabilities of foreign operations are translated at period-end exchange rates. The effect of exchange rate fluctuations on translating foreign currency into U.S. dollars is included in the Statements of Operations and is not material to the Company's consolidated financial statements.

Segment Information

Operating segments are defined as components of an enterprise for which separate discrete information is available for evaluation by the chief operating decision maker or decision-making group in deciding how to allocate resources and in assessing performance. The Company views its operations and manages its business as one operating segment and reporting unit, which is the business of developing and delivering novel therapies for the management of CNS disorders.

Cash and Cash Equivalents

The Company considers all highly liquid investments that have maturities of three months or less when acquired to be cash equivalents. The Company's cash and cash equivalents includes holdings in checking and overnight sweep accounts. The Company's cash equivalents, which are money market funds held in a sweep account, are measured at fair value on a recurring basis. As of June 30, 2024, the balance of cash and cash equivalents was \$315.7 million, which approximates fair value and was determined based upon Level 1 inputs. The sweep account is valued using quoted market prices with no valuation adjustments applied.

Concentration of Risk

Concentration of Credit Risk

Financial instruments that potentially subject the Company to a concentration of credit risk consist of cash and cash equivalents. The Company maintains its cash deposits at financial institutions, which cash deposits exceed insured limits. At June 30, 2024, the majority of the Company's cash was held by two financial institutions and amounts on deposit were in excess of government-provided insurance limits. The Company places its cash and cash equivalents in what it believes to be high credit quality banks and money market funds and has not recognized any losses from credit risks on such accounts since inception. See Accounts Receivables, net below for further information.

Concentration of Risk, Other

The Company has a limited number of contract manufacturers for its products. At times, the Company may have only one manufacturer or supplier for its products.

Business Combination

The Company accounted for the Acquisition as a business combination using the acquisition method of accounting, which requires that all identifiable assets acquired, and liabilities assumed be recorded at their estimated fair values. The excess of the fair value of purchase consideration over the fair values of identifiable assets and liabilities is recorded as goodwill. When determining the fair values of assets acquired and liabilities assumed, management makes significant estimates and assumptions. Critical estimates in valuing the intangible asset include but are not limited to future expected cash flows from acquired patented technology. Management's estimates of fair value are based upon assumptions believed to be reasonable, but are inherently uncertain and unpredictable and, as a result, actual results may differ from estimates.

Goodwill

Goodwill is deemed to have an indefinite life and therefore not amortized. The Company tests the carrying amounts of goodwill for recoverability on an annual basis or more frequently if events or changes in circumstances indicate that the asset might be impaired. When reviewing goodwill for impairment, the Company first evaluates the qualitative factors to determine whether it is more likely than not that the fair value of a reporting unit is less than its carrying amount. If the qualitative factors determine it is necessary to complete a goodwill impairment test, the fair value of the relevant reporting unit is determined and compared to its carrying value. If the fair value is greater than the carrying value, then the carrying value is deemed to be recoverable, and no further action is required. If the fair value estimate is less than the carrying value, goodwill is considered impaired for the amount by which the carrying amount exceeds the reporting unit's fair value, and a charge is reported in impairment of goodwill in the Company's consolidated statements of operations. The Company completes its annual goodwill assessment as of December 31. As of June 30, 2024, the Company has determined that it has six months ended June 30, 2024. The balance of goodwill at June 30, 2024 and December 31, 2023 remains unchanged at \$12.0 million.

Intangible Asset

Contingent Consideration

Consideration paid in a business combination may include potential future payments that are contingent upon the acquired business achieving certain milestones in the future ("contingent consideration"). The royalty payments due to Jazz are a high single-digit royalty on the Company's U.S. net sales of Sunosi in the current indication and a mid-single-digit royalty on the Company's U.S. net sales of Sunosi for future indications. Contingent consideration liabilities are measured at their estimated fair value as of the date of acquisition, with subsequent changes in fair value recorded in the consolidated statements

of operations during such period a change is recognized. The Company estimates the fair value of the contingent consideration as of the acquisition date and reporting periods thereafter using the probability weighted income approach and makes significant assumptions, including estimated future sales of Sunosi in current and future indications, timing of regulatory and commercial milestone achievements, probability of technical and regulatory success rates, and discount rates. Contingent consideration liabilities expected to be settled within 12 months after the balance sheet date are presented in current liabilities, with the non-current portion recorded within total liabilities in the consolidated balance sheets.

Fair Value Measurements

The Company measures its contingent consideration liabilities at fair value. Fair value is defined as the exchange price that would be received for an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants at the measurement date. Assets and liabilities that are measured at fair value are reported using a three-level fair value hierarchy that prioritizes the inputs used to measure fair value. This hierarchy maximizes the use of observable inputs and minimizes the use of unobservable inputs. The three levels of inputs used to measure fair value are as follows:

Level 1—Quoted prices in active markets for identical assets or liabilities that the Company has the ability to access at the measurement date.

Level 2—Inputs other than quoted prices in active markets that are observable for the asset or liability, either directly or indirectly.

Level 3—Unobservable inputs for which there is little or no market data, which require the reporting entity to develop its own assumptions.

To the extent that valuation is based on models or inputs that are less observable or unobservable in the market, the determination of fair value requires more judgment. Accordingly, the degree of judgment exercised by the Company in determining fair value is greatest for instruments categorized in Level 3. An asset's or liability's level within the fair value hierarchy is based on the lowest level of any input that is significant to the fair value measurement.

The Company's financial instruments are cash and cash equivalents, accounts receivable, accounts payable, accrued expenses and other liabilities, contingent warrant liability, current and long-term debt, and current and non-current contingent consideration. The Company's Level 1 financial instruments include cash and cash equivalents, accounts receivable, accounts payable, and accrued expenses and other liabilities. They are considered Level 1 as the carrying values reported in the accompanying consolidated financial statements approximate their respective fair values due to their short-term maturities. The carrying value of debt on the Company's balance sheet is estimated to approximate its fair value. The Company's Level 3 financial instruments include contingent warrant liability and current and non-current contingent consideration due to the significant unobservable inputs required in determining their respective fair values.

Accounts Receivable

The Company categorizes its accounts receivable at fair value using the probability weighted income approach using significant assumptions, including estimated future sales of Sunosi in current and future indications, timing of regulatory and commercial milestone achievements, probability of technical and regulatory success and discount rates. Contingent consideration liabilities are subject to remeasurement at each prospective balance sheet date, with any changes in the fair value recorded in the consolidated statements of operations. See Note 6, Fair Value of Financial Instruments for further detail.

Debt Issuance Costs

The Company estimates expected credit losses of its accounts receivable by assessing the risk of loss and available relevant information about collectability, including historical credit losses, existing contractual payment terms, actual payment patterns of its customers, individual customer circumstances, and reasonable and supportable forecast of economic conditions expected to exist throughout the contractual life of the receivable. The Company has not historically experienced significant credit losses. Based on its assessment, as of June 30, 2024, the Company has no allowance for doubtful accounts receivable.

Inventory

The Company values its inventories at the lower of cost or estimated net realizable value. The remaining inventory associated with the Acquisition is stated at fair value due to purchase accounting. The Company performs an assessment of the recoverability of capitalized inventory during each reporting period, and it writes down any excess and obsolete inventories to their estimated net realizable value in the period in which the impairment is first identified. Such impairment charges, if they occur, are recorded within cost of revenue.

Research and Development Costs

Research and development costs are expensed as incurred. Research and development expenses consist primarily of employee-related expenses, including salaries, benefits, travel and stock-based compensation expense, contract services, costs incurred to third-party service providers for conducting research, preclinical and clinical studies, laboratory supplies, product license fees, consulting and other related expenses. Research, preclinical and clinical study expenses are estimated based on services performed, pursuant to contracts with third-party research and development organizations that conduct and manage research, preclinical and clinical activities on the Company's behalf, including discussions with internal management personnel and external service providers as to the progress or stage of completion of services and the contracted fees to be paid for such services. If the actual timing of the performance of services or the level of effort varies from the original estimates, accruals are adjusted accordingly. Payments associated with licensing agreements to acquire licenses to develop, use, manufacture and commercialize products that have not reached technological feasibility and do not have alternative future use are expensed as incurred.

Advertising Costs

Advertising costs are included in selling, general and administrative expenses and are expensed as incurred. The Company considers advertising costs as expenses related to the promotion of the Company's commercial products. For the three and six months ended June 30, 2024, advertising costs were \$3.3 million and \$5.4 million, respectively. For the three and six months ended June 30, 2023, advertising costs were \$3.3 million and \$5.4 million, respectively.

color:#000000;white-space:pre-wrap;font-size:10pt;font-family:Times New Roman,min-width:fit-content;">>26.7%

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</p>million, respectively.

</p>Income Taxes<p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">The Company estimates an annual effective tax rate ofthe Company's deferred tax assets.<p>The Company recognizes the tax benefit from an uncertain tax position only if it is more likely than not to be sustained upon examination based on the technical merits of the position as well as consideration of the available facts and circumstances. When uncertain tax positions exist, the Company recognizes the tax benefit of tax positions to the extent that the benefit will more likely than not be realized. As of June 30, 2024, the Company does not believe any material uncertain tax positions are present. In the event the Company determines that accrual of interest or penalties are necessary in the future, the amount will be presented as a component of income tax expense.<p>Stock-Based Compensation<p>For stock options issued, the Company estimates the grant date fair value of each option using the Black-Scholes option pricing model. The Black-Scholes model takes into account the expected volatility of the Company's common stock, the risk-free interest rate, the estimated life of the option, the closing market price of the Company's common stock and the exercise price. The estimates utilized in the Black-Scholes calculation involve inherent uncertainties and the application of management's judgment. In addition, the Company recognizes expense for equity award forfeitures as they occur.</p>For restricted stock units ("RSUs"), the Company issues them in the form of Company common stock. The fair market value of these awards is based on the market closing price per share on the grant date.<p>The Company recognizes the grant date fair value of the stock options and RSUs over the requisite service period, which is generally the vesting term. For awards only subject to service-based vesting conditions, the Company elected to recognize stock-based compensation expense on a straight-line basis. For awards subject to performance-based vesting conditions, the Company recognizes stock-based compensation expense using the accelerated attribution method when the achievement of the performance condition becomes probable. The expense related to the stock-based compensation is recorded within the same financial statement line item as the grantee's cash compensation.<p>The Company's policy upon exercise of stock options and RSUs is that shares will be issued as new shares drawing on the Company's 2015 Omnibus Incentive Compensation Plan share pool that was adopted by the stockholders in November 2015.<p>Basic and Diluted Net Loss per Common Share<p>Basic net loss per share of common stock is computed by dividing net loss by the weighted average number of shares of common stock outstanding during the period. Diluted net loss per share of common stock includes the effect, if any, from the potential exercise or conversion of securities, such as warrants, stock options, RSUs and/or common stock pursuant to the 2023 Employee Stock Purchase Plan (the "ESPP"), which would result in the issuance of incremental shares of common stock. As the impact of these items is anti-dilutive during periods of net loss, there was no difference between basic and diluted net loss per share of common stock for the three and six months ended June 30, 2024 and 2023.Leases<p>The Company determines if an arrangement is a lease at contract inception. Right-of-use assets represent the Company's right to use an underlying asset for the lease term and lease liabilities represent the Company's obligation to make lease payments arising from the lease. When evaluating whether a contract contains a lease, the Company considers whether (1) the contract explicitly or implicitly identifies assets that are contractually defined and (2) the Company obtains substantially all of the economic benefits from the use of that underlying asset and directs how and for what purpose the asset is used during the term of the contract.<p>The Company's lease agreements contain lease and non-lease components. Non-lease components primarily include payments for maintenance and utilities. The Company has applied the practical expedient to combine fixed payments for non-lease components with lease payments and account for them together as a single lease component, which increases the amount of lease assets and corresponding liabilities. Payments under the Company's lease arrangements are primarily fixed, however, variable payments are expensed as incurred and not included in the operating lease asset and liability.<p>Lease assets and liabilities are recognized at the commencement date of the lease based upon the present value of lease payments over the lease term. When determining the lease term, the Company includes options to extend or terminate the lease when it is reasonably certain that the Company will exercise that option. The Company uses the interest rate implicit in the contract when such rate is readily determinable and uses the Company's incremental borrowing rate when the rate implicit in the contract is not readily determinable based upon the information available at the commencement date in determining the present value of the lease payments.<p>The Company's operating leases are reflected in the right-of-use operating asset, operating lease liability, current portion, and operating lease liability, long-term portion in the Company's consolidated balance sheets. Operating lease expense is recognized on a straight-line basis over the lease term and included in selling, general and administrative expenses. Finance leases are included in the non-current inventory and other assets, accrued expenses and other current liabilities, and finance lease liability, long-term in the Company's consolidated balance sheets. Assets under the finance leases are amortized on a straight-line basis over the lease term and included in selling, general and administrative expenses. Short-term leases, defined as leases that have a lease term of 12 months or less at the commencement date, and do not include an option to extend the term or purchase the underlying asset that the Company is reasonably certain to exercise, are excluded from this treatment and are recognized on a straight-line basis over the term of the lease.<p>Recent Accounting Pronouncements<p>In November 2023, the Financial Accounting Standards Board ("FASB") issued Accounting Standards Update ("ASU") 2023-07, Segment reporting, which requires disclosure of incremental segment information on an annual and interim basis. The standard is effective for years beginning after December 15, 2023 and interim periods beginning after December 15, 2024, and early adoption is permitted. The Company is currently evaluating the effect of adopting this guidance on its consolidated financial statements.<p>Improvements to income tax disclosures, which requires disclosure of disaggregated income taxes paid by jurisdiction, enhances disclosures in the effective tax rate reconciliation, and modifies other income tax-related disclosures. The amendments are effective for annual periods beginning after December 15, 2024. The Company is currently evaluating the effect of adopting this guidance on its consolidated financial statements.<p>Note 3. Accounts receivable, net<p><div style="font-size:10pt;font-family:Times New Roman;">Accounts receivable, net, consisted of the following:</div><table style="width:100%;border-spacing:0;border-collapse:collapse;separate-columns:auto;"><tr style="visibility:collapse;"><td style="width:66.993%;"></td><td style="width:1.62%;"></td><td style="width:1%;"></td><td style="width:12.883000000000001%"></td><td style="width:1%;"></td></tr><tr><td style="width:1.62%;"></td><td style="width:1%;"></td><td style="width:12.883000000000001%"></td><td style="width:1%;"></td></tr></table><div style="font-size:8pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;">June 30,
2024</div><div style="font-size:8pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;">December 31,
2023</div><div style="font-size:8pt;margin-top:0;font-family:Times New Roman;margin-bottom:0;text-align:center;"><

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wrap;font-size:10pt;font-family:Times New Roman;min-width:fit-content;">"% of the sum of the outstanding principal amount of the term loan advances plus (B) ensure that at all times that it maintains cash in an account which Hercules has a first priority security interest in an amount not less than 95% of the sum of the outstanding principal amount of the term loan advances plus (C) achieve at least 60% of the net product revenue per the Board approved forecast solely from the sale of AXS-05, AXS-07, and Sunosi (which may include royalty, profit sharing, or sales-based milestone revenue recognized in accordance with GAAP, but will not include any upfront or non-sales-based milestone payments under business development or licensing transactions); measured on a trailing six-month basis as of the date of the Company's most recent quarterly financial statement, determined on a quarterly basis.</div><div class="item-list-element-wrapper" style="margin-left:4.528%;display:flex;margin-top:6pt;justify-content:flex-start;align-items:baseline;margin-bottom:0;min-width:4.537%;text-align:left;"><div style="width:100%;display:inline;">Axsome Malta, a company organized under the laws of the Republic of Malta, shall not hold cash outside of the United States in excess of \$3.0 million in the aggregate at any time. This amount, however, was increased by the Fourth Amendment to \$15.0 million for a 45-day period after the closing of the Fourth Amendment and to \$10.0 million thereafter. Furthermore, in August 2023, Hercules granted the Company a waiver to the Fourth Amendment, permitting Axsome Malta to hold up to \$12.5 million in Cash outside of the United States until December 31, 2023.</div><div class="item-list-element-wrapper" style="margin-left:4.528%;display:flex;margin-top:6pt;justify-content:flex-start;align-items:baseline;margin-bottom:0;min-width:4.537%;text-align:left;"><div style="width:100%;display:inline;">Restrictions on the Company's ability to incur additional indebtedness, pay dividends, encumber its intellectual property, or engage in certain fundamental business transactions, such as mergers or acquisitions of other businesses, with certain exceptions.</div></div><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">The Company's obligations under the Loan Agreement are subject to acceleration upon the occurrence of specified events of default, including payment default, insolvency and a material adverse change in the Borrower's business, operations or financial or other condition.</p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">In addition, the Company is required to pay certain end of term charges, including (A) an initial end of term charge of \$4.45 million and (B) a subsequent end of term charge of (i) 1.10% of the aggregate amount of all term loan advances (other than tranche 1A advances) funded. The end of term charges are being accreted into interest expense using the effective interest rate method over the term of the loan.</p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">If certain maturity extension conditions are satisfied, the Company must pay an extension end of term charge equal to 1.00% of the aggregate amount of all term loan advances outstanding as of the date on which the maturity extension conditions are satisfied, in addition to the end of term charges described above.</p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">The Company may, at its option prepay the term loans in full or in part, subject to a prepayment penalty equal to (i) 2.0% of the principal amount prepaid if the prepayment occurs prior to February 1, 2024, (ii) 1.5% of the principal amount prepaid if the prepayment occurs on or after February 1, 2024 but prior to February 1, 2025, and (iii) 1.0% of the principal amount prepaid if the prepayment occurs on or after February 1, 2025 but prior to February 1, 2026.</p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">The Company evaluated whether the Third Amendment entered into in January 2023 represented a debt modification or extinguishment in accordance with ASC 470-50.</p><p style="color:#000000:white-space:pre-wrap;font-size:10pt;font-family:Times New Roman;font-style:italic;min-width:fit-content;">Debt – Modifications and Extinguishments</p><p style="color:#000000:white-space:pre-wrap;font-size:10pt;font-family:Times New Roman;min-width:fit-content;">As the present value of the cash flows under the terms of the Third Amendment is less than 10% different from the remaining cash flows under the terms of the Second Amendment, the Third Amendment was accounted for as a debt modification. The unamortized balance of debt discount costs incurred in connection with those loans and additional debt discount costs incurred in connection with entry into the Third Amendment are being amortized through maturity in January 2028</p><p style="color:#000000:white-space:pre-wrap;font-size:10pt;font-family:Times New Roman;min-width:fit-content;">utilizing the effective interest rate method.</p><p style="font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">Loan Interest Expense and Amortization</p><div style="font-size:10pt;font-family:Times New Roman;"><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:12pt;text-align:left;">Long-term debt and unamortized debt discount balances are as follows:</p><table style="margin-left:auto;border-spacing:0;table-layout:fixed;width:100.0%;border-collapse:separate;margin-right:auto;"><tr style="visibility:collapse;"><td style="width:66.993%;"></td><td style="width:1.62%;"></td><td style="width:1.62%;"></td><td style="width:1%"></td><td style="width:12.883000000000001%"></td><td style="width:1%"></td><td style="width:1.62%;"></td><td style="width:1%"></td><td style="width:12.883000000000001%"></td><td style="width:1%"></td></tr><tr style="height:8pt;background-color:#fffff0;word-break:break-word;"><td style="vertical-align:bottom;text-align:left;"></td><td style="vertical-align:bottom;">2</td><

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shares of the Company's common stock from time to time through Leerink, acting as the Company's sales agent, in one or more at-the-market offerings utilizing an automatic shelf registration statement (the "2019 Shelf Registration Statement") the Company filed with the U.S. Securities and Exchange Commission (the "SEC") on December 5, 2019 for the issuance of common stock, preferred stock, warrants, rights, debt securities and units. Leerink is entitled to receive a commission of 3.0% of the gross proceeds for any shares sold under the December 2019 Sales Agreement. The December 2019 Sales Agreement was replaced by the March 2022 Sales Agreement (as defined below).</p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">In March 2022, the Company entered into a sales agreement (the "March 2022 Sales Agreement") with Leerink and filed a prospectus supplement, pursuant to which the Company could sell up to 200 million in shares of the Company's common stock from time to time through Leerink, acting as the Company's sales agent, in one or more at-the-market offerings utilizing the 2019 Shelf Registration Statement. Leerink is entitled to receive a commission of up to 3.0% of the gross proceeds for any shares sold under the March 2022 Sales Agreement. The March 2022 Sales Agreement supersedes the December 2019 Sales Agreement, dated December 5, 2019, by and between the Company and Leerink. The Company exhausted sales of shares of the Company's common stock under its prior at-the-market offering program.</p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">In August 2022, the Company filed a prospectus supplement to the 2019 Shelf Registration Statement for the issuance and sale, if any, of up to an additional 250 million in shares of the Company's common stock. The Company will pay Leerink a commission of up to 3.0% of the gross sales proceeds of any shares sold through Leerink, acting as sales agent, under the March 2022 Sales Agreement.</p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">In December 2022, in connection with the 2022 Shelf Registration Statement (as defined below), the Company filed a new sales agreement prospectus to replace the prior prospectus supplement filed in August 2022 associated with the expired 2019 Shelf Registration Statement. The new sales agreement prospectus covered the issuance and sale by the Company of up to the same 250 million of the Company's common stock that may be issued and sold from time to time through Leerink, as the Company's sales agent, under the March 2022 Sales Agreement.</p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">Under the March 2022 Sales Agreement, for the three months ended June 30, 2024 the Company received approximately 11.3 million in gross proceeds through the sale of 148.875 shares, of which net proceeds were approximately 11.0 million. The Company did 11.0 million for the year ended December 31, 2024.</p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">The Company did 11.0 million for the year ended December 31, 2023. Under the December 2019 Sales Agreement and March 2022 Sales Agreement, the Company received approximately 238.8 million in gross proceeds through the sale of 110.296 shares, of which net proceeds were approximately 7.2 million for the year ended December 31, 2021.</p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">Upon the closing of the Second Amendment, which occurred in March 2022, Hercules also purchased 152.487 of the Company's unregistered common stock for a total consideration of 5.0 million at a share price equal to 32.79 per share, pursuant to a share transfer agreement.</p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">The holders of shares of common stock are entitled to one vote for each share of common stock held at all meetings of stockholders and written actions in lieu of meetings. The holders of shares of common stock are entitled to receive dividends, if and when declared by the Board.</p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">June 2023 Public Offering</p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">In June 2023, the Company completed an underwritten public offering of its common stock (the "June 2023 Public Offering"). The Company sold 450.000 million shares of its common stock at a public offering price of 75.00 per share. The net proceeds were 211.3 million, net of underwriting discounts and commissions of 13.5 million and other offering costs of 0.2 million. Additionally, in connection with this public offering, in July 2023, the underwriters fully exercised their option to purchase 450.000 million shares of the Company's common stock at a public offering price of 75.00 per share. The net proceeds from the exercise of the option were 31.7 million, net of underwriting discounts and commissions of 2.0 million and other minimal offering costs.</p><p style="text-indent:6.667%;padding-left:6%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">Shelf Registration Statement</p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">On December 2, 2022, the Company filed an automatic shelf registration statement (the "2022 Shelf Registration Statement") with the SEC for the issuance of common stock, preferred stock, warrants, rights, debt securities and units. It became effective upon filing with the SEC and is currently the Company's only active shelf registration.</p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">Under SEC rules, the 2022 Shelf Registration Statement allows for the potential future offer and sale by the Company, from time to time, in one or more public offerings of an indeterminate amount of the Company's common stock, preferred stock, debt securities, and units at indeterminate prices. At the time any of the securities covered by the 2022 Shelf Registration Statement are offered for sale, a prospectus supplement will be prepared and filed with the SEC containing specific information about the terms of any such offering.</p><p style="font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">Equity Incentive Plan</p><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">In November 2015, the 2015 Omnibus Incentive Compensation Plan (the "2015 Plan") was adopted by the Company's stockholders. As of June 30, 2024, there were 1,183,992 shares available for future grant under the 2015 Plan.</p><p style="font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:0;text-align:left;">Stock Options</p><div style="font-size:10pt;font-family:Times New Roman;"><p style="text-indent:6.667%;font-size:10pt;margin-top:12pt;font-family:Times New Roman;margin-bottom:12pt;text-align:left;">The following table sets forth stock option activity as of June 30, 2024.</p><table style="margin-left:auto;border-spacing:0;table-layout:fixed;width:100.0%;border-collapse:separate;margin-right:auto;"><tr style="visibility:collapse;"><td style="width:50.11%"></td><td style="width:1%"></td><td style="width:1%"></td><td style="width:9.662%"></td><td style="width:1%"></td><td style="width:1.22%"></td><td style="width:1%"></td><td style="width:9.662%"></td><td style="width:1%"></td><td style="width:1.22%"></td><td style="width:1%"></td></tr></div></div>

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Vested and expected to vest at June 30, 2024

The fair value of each stock option grant is estimated on the date of grant using the Black-Scholes option pricing model. The expected term of the Company's stock options has been determined utilizing the "simplified" method as described in the SEC's Staff Accounting Bulletin No. 107 relating to stock-based compensation. The simplified method was chosen because the Company has limited historical option exercise experience due to its short operating history. The risk-free interest rate is based on the U.S. Treasury yield in effect at the time of grant for a period approximately equal to the expected term of the award. Expected dividend yield is based on the fact that the Company has never paid cash dividends and does not expect to pay any cash dividends in the foreseeable future. In prior years, expected volatility was based on historical volatilities of similar entities within the Company's industry which were commensurate with the Company's expected term assumption. Currently, expected volatility is based on historical volatility information of the Company's common stock since the Company's initial public offering in 2015.

At June 30, 2024, there were 6.667 million of total unrecognized compensation cost related to non-vested stock options which is expected to be recognized over a weighted average period of 2.7 years.

Restricted Stock Units

The fair value of RSUs is determined on the date of the grant based on the market price of its shares of common stock as of that date. The fair value of the RSUs is recognized as an expense ratably over the vesting period of six months ended June 30, 2024. As of June 30, 2024, there were 177.5 million of total unrecognized compensation cost related to non-vested stock units which is expected to be recognized over a weighted average period of 4.2 years.

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2023

Loss before income taxes

Income tax benefit (expense)

Effective tax rate

The Company is subject to income taxes in the United States and foreign jurisdictions in which the Company does business. These foreign jurisdictions have statutory tax rates different from those in the United States. Accordingly, the Company's effective tax rates will vary depending on the relative proportion of foreign to United States income, the utilization of net operating loss and tax credit carry forwards, changes in geographic mix of income and expense, and changes in management's assessment of matters such as the ability to realize deferred tax assets and changes in tax laws. The Company regularly assesses the likelihood of adverse outcomes resulting from the examination of the Company's tax returns by the Internal Revenue Service (the "IRS") and other tax authorities to determine the adequacy of its income tax reserves and expense. Should actual events or results differ from the Company's current expectations, charges or credits to its income tax expense may become necessary.

The Company did not record a tax expense for the three months ended June 30, 2024. The Company recorded a tax benefit of \$0.6 million for the three months ended June 30, 2023 and a Maltese tax expense of \$2.0 million for the six months ended June 30, 2023 on income earned in Malta in relation to the license revenue recognized from the Pharmanovia License Agreement.

The Company did not have any unrecognized tax benefits as of June 30, 2024 related to uncertain tax positions that would impact the effective income tax rate if recognized.

The Company is currently under examination by the IRS for the Company's 2021 U.S. income tax return. The Company is not currently under examination at the state level. The Company's U.S. federal and state net operating losses have occurred since its inception in 2012 and as such, tax years subject to potential tax examination could apply from that date because the utilization of net operating losses from prior years opens the relevant year to audit by the IRS and/or state taxing authorities.

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December 29, 2024

Up to 86,094 shares of common stock pursuant to the exercise of non-qualified stock options immediately prior to the 10-year expiration dates of such options in 2024

(3)

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(1) Date of termination of Rule 10b5-1 trading arrangements is in accordance with both the Company's insider trading policy and applicable SEC rules and regulations.

(2) The date of adoption of this Rule 10b5-1 trading arrangement was August 15, 2023. The first trade pursuant to the Rule 10b5-1 trading arrangement was, in accordance with both the Company's insider trading policy and applicable SEC rules and regulations, on a date after the date of adoption of the Rule 10b5-1 trading arrangement.

(3) Prior to its termination, 38,355 shares of common stock pursuant to the exercise of non-qualified stock options were sold pursuant to this Rule 10b5-1 trading arrangement.

Mark JacobsonChief Operating OfficerMay 10, 2024February 13, 202580575

Mark JacobsonChief Operating OfficerMay 10, 2024December 29, 202486094P10Y38355