

U.S. Large Molecule Drug Substance CDMO Market Size, Share & Trends Analysis Report By Product (Biologics, Biosimilar), By Service (Contract Manufacturing, Contract Development), By Source, By End Use, By Country, And Segment Forecasts, 2025 - 2033

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Abstracts

Market Size & Trends

The U.S. large molecule drug substance CDMO market size was estimated at USD 12.22 billion in 2024 and is projected to reach USD 22.56 billion by 2033, growing at a CAGR of 7.06% from 2025 to 2033. This market is experiencing significant growth due to the growing prevalence of chronic diseases, further driving the demand for biologics such as monoclonal antibodies, cell therapies, and gene therapies. Moreover, increasing outsourcing trends by pharmaceutical and biotech companies to reduce costs, access specialized expertise, and accelerate commercialization are also some of the factors contributing to the market growth.

The market is driven by the growing demand for biologics to meet the growing demand for effective therapeutic options for chronic and complex diseases. The increasing prevalence of cancer, autoimmune disorders, and metabolic diseases globally is leading to the growing demand for more advanced therapies. Biologics such as monoclonal antibodies, recombinant proteins, cell therapies, and gene therapies have emerged as prominent solutions, but their development and manufacturing processes are comparatively complex and require advanced infrastructure. Therefore, several pharmaceutical and biotechnology companies increasingly turn to contract development and manufacturing organizations to streamline operations and address the growing

complexity of large molecule drug development. Thus, these factors would help companies to reduce the burden of high capital investments, avoid lengthy facility set-ups, and gain faster access to specialized expertise that ensures regulatory compliance and high-quality production.

Furthermore, growing innovation and regulatory support to create a favorable environment for CDMOs in the U.S. is also contributing to the market growth. Continuous advancements in bioprocessing technologies, such as the shift towards single-use systems and the adoption of continuous manufacturing, are making biologics production more efficient, flexible, and cost-effective. These improvements not only help manufacturers meet the rising global demand but also enable CDMOs to handle more complex pipelines, including biosimilars that are rapidly emerging as patents for blockbuster biologics expire.

U.S. Large Molecule Drug Substance CDMO Market Report Segmentation

This report forecasts revenue growth at country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the U.S. large molecule drug substance CDMO market report based on product, service, source, and end use.

Product Outlook (Revenue, USD Million, 2021 - 2033)

Biologics

Biosimilar

Service Outlook (Revenue, USD Million, 2021 - 2033)

Contract Manufacturing

Clinical

Commercial

Contract Development

Cell Line Development

Process Development

Source Outlook (Revenue, USD Million, 2021 - 2033)

Mammalian

Microbial

Others

End Use Outlook (Revenue, USD Million, 2021 - 2033)

Biotech Companies

CRO

Others

This report can be delivered to the clients within 2 Business Days

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