

Large Molecule Bioanalytical Technologies Market Size, Share & Trends Analysis Report By Product, By Technology (Chromatography, Electrophoresis), By Application, By Region, And Segment Forecasts, 2021 - 2028

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Abstracts

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Large Molecule Bioanalytical Technologies Market Growth & Trends

The global large molecule bioanalytical technologies market size is expected to reach USD 13.9 billion by 2028, according to a new report by Grand View Research, Inc. The market is estimated to expand at a CAGR of 13.5% from 2021 to 2028. The demand for bioanalytical testing services has significantly increased over the past few years, thereby positively impacting the growth of the market.

This is primarily due to the growing R&D activities in the biopharmaceutical industry, leading to notable investments in the space. Also, the ongoing pandemic of COVID-19 has resulted in the expansion of manufacturing and R&D capabilities of key stakeholders leading to increased demand for bioanalytical testing services. The use of advanced technologies in vaccine and cell gene therapy development has led to significant growth of this space.

Advancements in instrumentation have created lucrative opportunities for contract manufacturers. Over the past several years, biopharmaceutical manufacturers are outsourcing at least some part of their biomanufacturing activities. Analytical testing is one of the most outsourced activities as it requires highly specialized personnel and equipment to conduct assays. These factors are anticipated to play a vital role in

shaping market growth.

Large Molecule Bioanalytical Technologies Market Report Highlights

The product segment accounted for the largest revenue share in 2020

Biopharmaceutical products require various instruments for characterization, identification, purity, and potency testing

Availability of a wide range of products for the aforementioned assay applications is the key factor contributing to segment growth

Mass spectrometry captured the maximum revenue share in 2020 due to the diversification of products as well as their frequent usage

This technology has been conventionally used in the development of protein pharmaceuticals, for instance, in the analysis of confirmations of amino acids in proteins

Furthermore, quantitative PCR (qPCR) is widely adopted in the detection of viral contaminants during the manufacture of biopharmaceuticals

Thus, with the growing demand for viral vectors, this technology is anticipated to witness the fastest growth over the forecast period

Moreover, the presence of a wide array of products in spectrometry is one of the key industry factors driving investment in the segment

Biologics accounted for the major revenue share in 2020 owing to the ever-expanding R&D activity programs in the segment

Besides, the presence of a stringent regulatory framework for advanced therapies has increased the demand for bioanalytical testing services

The COVID-19 pandemic has accelerated the development of genetic vaccines

This increases the utility of analytical tools for assessing the safety and stability of large molecules, thereby driving the segment

North America dominated the market in 2020 owing to the presence of strong research as well as a commercial base for biopharmaceutical manufacturing

Moreover, the U.S. is the largest biopharmaceutical market that has positively influenced the adoption and usage of large molecule bioanalytical technologies in the region

In the Asia Pacific, the market is estimated to register the fastest CAGR with emerging markets such as China and Japan at the forefront

Collaborations between domestic and global players for expansion of biomanufacturing capabilities are supplementing the growth of the market in the region

Key companies are focusing on new product launches to sustain their position in the market

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