

Cell Culture Media Bags Market - Growth, Trends, Covid-19 Impact, and Forecasts (2023 - 2028)

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Report description:

The cell culture media bags market is projected to register a CAGR of 10% during the forecast period (2022-2027).

The COVID-19 outbreak is expected to have a significant impact on the cell culture media bags market due to the increasing demand for vaccination. The cell culture media bags play a crucial role in the production of vaccination and protein-based drug. The cell culture media bags are extensively used in the developmental phases and trial process of vaccine candidates. According to the article published by the Computational and Structural Biotechnology Journal in 2021, there are 184 vaccine candidates in pre-clinical testing and other 88 vaccine candidates in clinical phases. Thus, the COVID-19 pandemic has impacted the cell culture media bags market positively and contributed to its growth.

The increasing R&D activities in the biopharmaceutical sectors are expected to drive the growth of the market. According to the India Brand Equity Foundation, in 2020, there were more than 2700 biotech startups in India, which is estimated to reach 10,000 by 2024. Also, Seed Scientific Published in 2021 that over 6,600 biotech companies operate in the United States with active research and development activities. Cell culture media bags allow the growth of the target cells by providing suitable nutrients required for the development of biopharmaceuticals. This remarkable advantage of cell culture bags increased their demand in biopharmaceuticals for the expansion, storage, and concentration of cell culture mediums. Thus, the rising demand for biopharmaceuticals drives the growth of the cell culture media bags market. They are also extensively used in stem cell research and oncological studies as they provide an artificial environment that aids the life cycle of the target cells. The rising prevalence of cancer among the global population and the increasing necessity for the development of treatment are expected to drive the growth of the market. According to the Global Cancer Observatory, in 2021, around 1.2 million young adults were diagnosed with cancer across the world. Such increasing cancer cases demand effective treatment therapies, which increases the demand for cell culture media bags as they are widely employed in the study of cancer cells. This is due to cell culture bags being designed to

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isolate the procured cells and complete sealing by preventing exposure to the outside environment, which helps study the behavior of cancer cells and design a treatment for tumor cells.

Factors like the increasing geriatric population that is prone to chronic conditions and diseases drive the demand for biopharmaceuticals, resulting in the increasing usage of cell culture media bags by manufacturers. According to the Centers for Disease Control and Prevention (CDC), in 2020, approximately 85% of older adults had at least one chronic health condition, and 60% had at least two chronic conditions. Therefore, the increasing geriatric population, coupled with the rising demand for biopharmaceuticals, is expected to drive the growth of the market.

Cell Culture Media Bags Market Trends

The 2D Segment is Expected to Hold a Major Market Share

The sudden outbreak of COVID-19 had increased the demand for biologics to treat the infected people and provide vaccinations. The 2D design of the cell culture media bags segment is expected to hold the major share in the forecast period owing to the novel drug development and cell-based studies.

2D design cell culture media bags are expected to hold the major share in the market due to the increasing usage of cell culture media bags in the biopharmaceutical industries for their product development. The increasing demand is due to the increase in research and development activities to conquer emerging diseases, such as cancer, across the world. Also, cell culture media bags reduce the cost of production by decreasing the sterilization and cleaning processes. Additionally, the benefits offered by 2D design cell culture bags such as lightweight, high barrier, and decreased contamination cases make them more suitable for the biopharmaceutical industry.

Also, key factors such as increasing expenditure in the research and development by biopharmaceutical industries to novel treatments are expected to have a significant impact on the growth of the market. According to data published by the Organisation for Economic Co-Operation and Development (OECD) in 2020, the pharmaceutical industry spent nearly USD 101 billion on research and development in the OECD countries. Also, from the same source, it is reported that global R&D spending by the largest publicly-traded companies grew by 13.7% annually. Therefore, the increasing expenditure on research and development by the biopharmaceutical industry to develop their product pipelines is expected to boost the growth of the studied segment in the market. Hence, the 2D design of cell culture media bags is expected to hold the major market share.

North America is Expected to Hold a Significant Share in the Market, and It is Expected to do the Same During the Forecast Period

The flourishing presence of pharmaceutical and biotechnology industries, which are constantly focusing on the development of new and advanced therapies in the US region, is one of the major factors for the market growth. According to the Research America Organization in 2020, US medical and health R&D reached USD 254.1 billion for the development of novel treatments, which is 67% of the total spending. Also, the quick adoption of technological advancements in gene expression, vaccines, etc., in this region is also a contributing factor to the growth of the market. Also, factors such as the rising prevalence of chronic disorders among people demanding effective therapies and treatments also increased the demand for cell culture media bags in this region. For instance, six in ten Americans live with at least one chronic condition such as heart disease, cancer, etc., as published by the Centers for Disease Control and Prevention (CDC) in 2021. Thus, the increase in demand for novel treatment therapies, contributing to the increasing usage of cell culture media bags, is driving the growth of the market in this region. Additionally, the presence of major market players in this region is also a major factor in the growth of the market in this region.

Cell Culture Media Bags Market Competitor Analysis

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The cell culture media bags market is fragmented and consists of several major players. In terms of market share, a few of the major players are currently dominating the market. Some of the companies currently dominating the market are Thermo Fisher Scientific, Sartorius AG, Corning Incorporated, Danaher, Fukoku Co. Ltd, OriGen Biomedical, Lonza, Saint Gobain Performance Plastics, Shanghai LePure Biotech Co. Ltd, Technoflex, and others.

Additional Benefits:

The market estimate (ME) sheet in Excel format
3 months of analyst support

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