

Cell Culture Media Bags - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

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Report description:

The Cell Culture Media Bags Market size is estimated at USD 1.31 billion in 2025, and is expected to reach USD 2.06 billion by 2030, at a CAGR of 9.41% during the forecast period (2025-2030).

Factors such as increased research and development spending in the biopharmaceutical sector and the growing biotechnology industry are expected to aid in the market's growth between 2024 and 2029. For example, the Pharmaceutical Research and Manufacturers of America (PhRMA) trade group represents the leading biopharmaceutical research companies in the United States. In 2022, its member companies' research and development (R&D) expenditure reached around USD 101 billion worldwide, from which the United States represents 21% of R&D investment.

In March 2024, the California Institute for Regenerative Medicine provided USD 4 million to Gladstone Institute for the development of a center for stem cell disease modeling and CRISPR drug screening, which will open new pathways for the treatment of diseases associated with the nervous system, heart, and immune system. Thus, increasing the research and development expenditure of the biopharmaceutical industry and increasing the biotechnology companies are expected to drive the demand for cell culture media bags to store and cultivate the desired and target cells for the development of effective therapies, thereby contributing to the market's growth.

Moreover, the rising investments, product developments, and launches by various key market players are also expected to contribute to the market's growth between 2024 and 2029. For instance, in June 2023, WuXi Biologics expanded its manufacturing capacity for drug substances and products at its two sites in Leverkusen and Wuppertal, Germany. Thus, as the drug substance and product manufacturing capacity increases in Germany, the demand for cell culture media bags used in bioprocessing also increases.

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Therefore, the above-mentioned factors, such as the increasing research and development investments, market players' initiatives, and the cell culture media bag market growth, are anticipated to grow from 2024 to 2029. However, the increasing possibility of contamination and waste disposal are expected to restrain the development of the market between 2024 and 2029.

Cell Culture Media Bags Market Trends

The 2D Segment is Expected to Hold a Major Market Share in the Market Between 2024 and 2029

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

Key factors such as the rising prevalence of cancer among the global population and the increasing necessity for developing appropriate treatment using 2D culture bags are expected to drive the market's growth. For instance, the Breast Cancer Organization data published in March 2024 mentioned that in 2023, an estimated 297,790 new cases of invasive breast cancer were diagnosed in women in the United States, as well as 55,720 new cases of non-invasive breast cancer.

Additionally, the data published by the American Cancer Society in January 2024 mentioned that approximately 2.0 million people were expected to be diagnosed with cancer in the United States in 2023. Such an increase in cancer worldwide is expected to drive the demand for 2D cell culture media bags to develop various target cells and produce effective treatment options, thereby contributing to the growth of the studied segment between 2024 and 2029.

North America is Expected to Hold a Significant Share in the Market Between 2024 and 2029

North America is expected to hold a notable share of the market. The flourishing presence of pharmaceutical and biotechnology industries, which constantly focus on developing new and advanced therapies in this region, is one of the significant factors for the market growth. For instance, in September 2023, the Maryland Stem Cell Research Commission provided USD 4 million to enhance research in stem cell therapeutic areas for developing novel stem cell treatments to cure cancer and heart disorders.

In March 2023, the Canadian government invested USD 59 million to enhance biopharmaceutical drug research and development, commercialization, and manufacturing in the Alberta province. Increasing research and developmental expenditure of biopharmaceutical and biotechnology industries in North America are expected to drive the demand for cell culture bags, thereby contributing to the market's growth from 2024 to 2029.

Additionally, the increasing activities of market players, such as partnerships and investment of various market players and product launches in this region to develop biopharmaceutical solutions, are expected to drive market growth in North America. For instance, in February 2022, OriGen Biomedical Inc. introduced a novel CryoStore FLEX Freezing media bag in the United States to strengthen its position in the cell and gene therapy domain.

Thus, the above-mentioned factors, such as increasing biopharmaceutical expenditure and rising investments of various market players, are expected to drive the market's growth in this region between 2024 and 2029.

Cell Culture Media Bags Industry Overview

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The cell culture media bags market is moderately 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, and Technoflex.

Additional Benefits:

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

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