

Separation Systems for Commercial Biotechnology Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2022-2027

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Abstracts

The global separation systems for commercial biotechnology market reached a value of US\$ 23.73 Billion in 2021. Looking forward, IMARC Group expects the market to reach a value of US\$ 34.31 Billion by 2027, exhibiting a CAGR of 6.10% during 2022-2027. Keeping in mind the uncertainties of COVID-19, we are continuously tracking and evaluating the direct as well as the indirect influence of the pandemic on different end use industries. These insights are included in the report as a major market contributor.

The separation systems for commercial biotechnology refer to the solutions used for the purification and separation of biological products from complex mixtures and solutions, including biochemicals, diagnostic reagents and biopharmaceuticals. The separation is based on the electrostatic charge, density, shape, polarity, solubility, diffusivity and volatility of the product. It involves the use of various equipment and devices, such as chromatographs, membranes, filters, centrifuges, biochips and microarrays. These solutions offer improved resin productivity, higher recovery and minimal waste generation and wash water usage. As a result, separation systems find extensive applications across various industries, including pharmaceutical, food and beverage, cosmetic and agriculture.

Separation Systems for Commercial Biotechnology Market Trends:

Significant growth in the pharmaceutical industry across the globe is one of the key factors creating a positive outlook for the market. With the increasing prevalence of chronic medical ailments, there is a rising demand for personalized drugs, biopharmaceuticals and cell-based therapies, which is impacting the demand for separation systems for commercial biotechnology. Moreover, the widespread adoption of magnetic separators for the commercial production of plastics and chemicals is

providing a thrust to the market growth. Additionally, various technological advancements, such as the development of innovative upstream bioprocessing technologies that facilitate in the elimination of biohazardous by-products using simplified procedures, are acting as growth-inducing factors. Biotechnological institutes and research organizations are also using novel high-performance gas and supercritical fluid chromatography, centrifugation and electrophoresis equipment for the separation of sensitive and large molecules. Other factors, including improvements in the healthcare infrastructure, especially in the developing economies, along with extensive research and development (R&D) in the field of biotechnology, are anticipated to drive the market toward growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global separation systems for commercial biotechnology market, along with forecasts at the global, regional and country level from 2022-2027. Our report has categorized the market based on methods and application.

Breakup by Methods:

Modern Methods

Microarray

Lab-on-a-Chip

Magnetic Separation

Others

Conventional Methods

Chromatography

Flow Cytometry

Membrane Filtration

Others

Breakup by Application:

Pharmaceutical

Vaccines

Proteins

Hormones and Insulin

Enzymes

Human Blood Plasma Fractionation

Mammalian Cell Cultures

Food and Cosmetics
Agriculture
Others

Breakup by Region:

North America
United States
Canada
Asia-Pacific
China
Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Agilent Technologies Inc., Becton Dickinson and Company, Bio-Rad Laboratories Inc., Hitachi Ltd., Merck KGaA, Pall Corporation (Danaher Corporation), PerkinElmer Inc., Qiagen N.V, Repligen Corporation, Sartorius AG, Shimadzu Corporation and Thermo Fisher Scientific.

Key Questions Answered in This Report:

How has the global separation systems for commercial biotechnology market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global separation systems for commercial biotechnology market?

What are the key regional markets?

What is the breakup of the market based on the methods?

What is the breakup of the market based on the application?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global separation systems for commercial biotechnology market and who are the key players?

What is the degree of competition in the industry?

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