

**Separation Systems for Commercial Biotechnology Market Report by Methods (Modern Methods, Conventional Methods), Application (Pharmaceutical, Food and Cosmetics, Agriculture, and Others), and Region 2024-2032**

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**Report description:**

The global separation systems for commercial biotechnology market size reached US\$ 26.8 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 42.9 Billion by 2032, exhibiting a growth rate (CAGR) of 5.24% during 2024-2032.

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

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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 report, along with forecasts at the global, regional and country level from 2024-2032. 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

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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

1. What was the size of the global separation systems for commercial biotechnology market in 2023?
2. What is the expected growth rate of the global separation systems for commercial biotechnology market during 2024-2032?
3. What are the key factors driving the global separation systems for commercial biotechnology market?
4. What has been the impact of COVID-19 on the global separation systems for commercial biotechnology market?
5. What is the breakup of the global separation systems for commercial biotechnology market based on the methods?
6. What is the breakup of the global separation systems for commercial biotechnology market based on the application?
7. What are the key regions in the global separation systems for commercial biotechnology market?
8. Who are the key players/companies in the global separation systems for commercial biotechnology market?

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