

## **Cell Separation Technologies Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028**

Market Report | 2023-09-04 | 139 pages | IMARC Group

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### **Report description:**

Market Overview:

The global cell separation technologies market size reached US\$ 9.0 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 22.2 Billion by 2028, exhibiting a growth rate (CAGR) of 15.6% during 2023-2028. The rising adoption of cell separation technologies across the pharmaceutical and biotechnology sectors, the growing demand for personalized medicine, and ongoing technological advancements in the industry represent some of the key factors driving the market.

Cell separation technologies, or cell isolation technologies, refer to a range of methods and techniques used to isolate specific cells from a heterogeneous mixture of cells. Some of the standard techniques include microfluidic cell sorting, fluorescence-activated cell sorting (FACS), immunogenicity cell isolation, magnetic-activated cell sorting (MACS), and density gradient configuration. Cell separation technologies help isolate rare tumor cells or stem cells for further analysis and therapeutic purposes. As a result, they are used across the healthcare and biotechnology industries for research, clinical, and industrial applications, such as disease diagnosis, drug discovery, and bioprocessing. In addition to this, cell separation technologies are essential for studying cellular heterogeneity to understand disease mechanisms and develop personalized medicines.

Cell Separation Technologies Market Trends:

The increasing use of cell separation technologies across the pharmaceutical industry to enhance drug discovery and development procedures represents the primary factor driving the market growth. In line with this, the growing prevalence of numerous chronic and infectious diseases, such as cancer, acquired immune deficiency syndrome (AIDS), and cystic fibrosis, is propelling the market growth. Moreover, the increasing demand for personalized and regenerative medicines is fueling the need for highly specific cell separation technologies that can isolate specific cell types for targeted therapy. Besides this, the widespread utilization of cell separation technologies in manufacturing vaccines for various diseases, including human papillomavirus (HPV), influenza, and rotavirus, is creating a favorable outlook for the market. In addition to this, extensive

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investments in research and development (R&D) initiatives in the flourishing biotechnology sector for developing novel cell-based treatments and therapies are contributing to the market growth. Concurrent with this, an intensive focus on stem cell research, the surging demand for in vitro diagnostics, and the implementation of numerous favorable initiatives undertaken by governments of various countries to improve healthcare infrastructure are aiding in market expansion. Furthermore, ongoing technological advancements in cell separation technologies, such as microfluidics, lab-on-a-chip, and microarray technologies, are presenting remunerative growth opportunities for the market. Furthermore, the advent of advanced isolation tools that allows continuous examination of nucleic acids, chromatin, proteins, and other complex cells is acting as another significant growth-inducing factor

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global cell separation technologies market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on product, cell type, technology, application and end user.

#### Product Insights:

- Instruments
- Consumables

The report has provided a detailed breakup and analysis of the cell separation technologies market based on the product. This includes instruments and consumables. According to the report, consumables represented the largest segment.

#### Cell Type Insights:

- Human Cells
- Animal Cells

A detailed breakup and analysis of the cell separation technologies market based on the cell type has also been provided in the report. This includes human and animal cells.

#### Technology Insights:

- Centrifugation-based Cell Separation
- Surface marker-based Cell Separation
- Filtration-based Cell Separation

The report has provided a detailed breakup and analysis of the cell separation technologies market based on the technology. This includes centrifugation-based, surface marker-based, and filtration-based cell separation.

#### Application Insights:

- Oncology Research
- Neuroscience Research
- Stem Cell Research
- Microbiology
- Immunology Research
- Others

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A detailed breakup and analysis of the cell separation technologies market based on the application have also been provided in the report. This includes oncology research, neuroscience research, stem cell research, microbiology, immunology research, and others.

#### End User Insights:

Research Laboratories and Institute  
Biotechnology and Biopharmaceutical Companies  
Cell Banks

The report has provided a detailed breakup and analysis of the cell separation technologies market based on the end user. This includes research laboratories and institute, biotechnology and biopharmaceutical companies, and cell banks. According to the report, biotechnology and biopharmaceutical companies represented the largest segment.

#### Regional Insights:

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

The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, North America was the largest market for cell separation technologies. Some of the factors driving the North America cell separation technologies market included the bolstering growth of the pharmaceutical industry, the rising demand for personalized medicines, and the ongoing advancements in isolation tools.

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## Competitive Landscape:

The report has also provided a comprehensive analysis of the competitive landscape in the global cell separation technologies market. Competitive analysis such as market structure, market share by key players, player positioning, top winning strategies, competitive dashboard, and company evaluation quadrant has been covered in the report. Also, detailed profiles of all major companies have been provided. Some of the companies covered include Akadeum Life Sciences, Alfa Laval AB, Becton, Dickinson and Company, Bio-Rad Laboratories Inc., Corning Incorporated, Merck KGaA, Miltenyi Biotec Inc., PerkinElmer Inc., pluriSelect Life Science UG (haftungsbeschränkt) & Co. KG, Stemcell Technologies Inc., Terumo Corporation and Thermo Fisher Scientific Inc. Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

## Key Questions Answered in This Report

1. What was the size of the global cell separation technologies market in 2022?
2. What is the expected growth rate of the global cell separation technologies market during 2023-2028?
3. What are the key factors driving the global cell separation technologies market?
4. What has been the impact of COVID-19 on the global cell separation technologies market?
5. What is the breakup of the global cell separation technologies market based on the product?
6. What is the breakup of the global cell separation technologies market based on the end user?
7. What are the key regions in the global cell separation technologies market?
8. Who are the key players/companies in the global cell separation technologies market?

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