

Cell Isolation/ Cell Separation Market by Product (Consumables, Instruments), Cell Type (Human Cells, Animal Cells), Cell Source (Bone Marrow, Adipose Tissues), Technique (Centrifugation-based), Application, End User (Pharma) - Global Forecast to 2028

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Abstracts

The global cell isolation market size is projected to reach USD 8.2 billion by 2028 from USD 4.4 billion in 2023, at a CAGR of 13.4% during the forecast period. Factors such as increasing funding for cell-based research, are driving the market growth at a faster pace. The incidence of chronic and infectious diseases is on the rise, which is driving the demand for new therapies, including cell-based therapies that require cell isolation technologies. The development of new and advanced cell isolation technologies, such as microfluidics-based cell sorting, magnetic-activated cell sorting, and fluorescence-activated cell sorting, is driving the growth of the market. Governments and private organizations are investing heavily in life sciences and biotechnology research, which is driving the demand for cell isolation products and technologies.

“The consumables segment is likely to grow at highest CAGR during the forecast period of 2023-2028.”

On the basis of product, the cell isolation market is segmented into consumables and instruments. The consumables segment is projected to grow at the highest CAGR during the forecast period. The growth is attributed to increasing demand of consumables in cell based research. This is likely to have a positive impact on segmental growth. Consumables can save time by reducing the need for manual cell isolation procedures. This can be especially important for applications where time is

critical, such as in clinical settings. Consumables can be adapted to different experimental conditions and cell types, allowing researchers to customize their protocols to their specific needs. Consumables can reduce the risk of contamination during the isolation process, which is important for maintaining the integrity of the isolated cells. Consumables are often designed to be compatible with a range of downstream applications, such as gene expression analysis and proteomics.

“The human cells segment is expected to hold a dominant share in 2023.”

Based on the cell type, the market is segmented into human cells, and animal cells. The human cells segment is expected to hold a dominant share during the forecast period due to increasing investments for the research on human cells. Human cell lines, such as HeLa cells, have been used in research for decades and have become an important tool in many areas of medical research. The availability of established cell lines makes it easier for researchers to obtain and study human cells. The use of human cells in research can facilitate the translation of findings from the laboratory to the clinic, as human cells provide a more accurate representation of human physiology and disease. The use of human cells in research is generally more accepted by the public than the use of animal cells, as human cells are seen as more relevant and less controversial.

“The bone marrow cell isolation segment is likely to grow at highest CAGR during the forecast period of 2023-2028.”

On the basis of cell source, the cell isolation market is segmented into adipose tissue, bone marrow, and cord blood/embryonic stem cells, and other cell sources. The bone marrow segment is projected to grow at the highest CAGR during the forecast period. The growth is attributed to commercialization of a number of bone marrow-derived stem cell-based products for various therapeutic applications. Bone marrow contains a diverse population of cells, including hematopoietic stem cells, mesenchymal stem cells, and immune cells. These cells can be isolated and used in a wide range of applications, including research, drug discovery, and cell-based therapies. The isolation of bone marrow cells has been well-established and standardized over the years, making it easier for researchers to obtain high-quality cells.

“The surface-marker based cell isolation segment is likely to grow at highest CAGR during the forecast period of 2023-2028.”

On the basis of technique, the cell isolation market is segmented into centrifugation-based cell isolation, surface-marker based cell isolation, and filtration-based cell

isolation. The surface-marker based isolation segment is projected to grow at the highest CAGR during the forecast period. The growth is attributed to increasing demand of this technique in the pharmaceutical industries. This is likely to propel segmental growth.

“In 2022, the biomolecule isolation segment held a dominant share.”

Based on application, the cell isolation market is segmented into biomolecule isolation, stem cell research, cancer research, in vitro diagnostics, and tissue regeneration & regenerative medicine, and other applications. The biomolecule isolation segment held a dominant share of the cell isolation market. Technological advancements to project the market growth.

“The pharmaceutical & biotechnology companies segment is likely to grow at highest CAGR during the forecast period of 2023-2028.”

Based on end user, the cell isolation market is segmented into pharmaceutical & biotechnology companies, academic and research institutes, hospitals and diagnostic laboratories, and other end users. The pharmaceutical & biotechnology companies segment to grow at the highest CAGR during the forecast period. Pharmaceutical and biotechnology companies' focus on R&D activities is one of the major factors anticipated to project market growth.

“Asia Pacific region is likely to grow at faster pace.”

The cell isolation market is divided into North America, Europe, the Asia Pacific, Latin America, and the Middle East & Africa. In 2022, North America accounted for the dominant share of cell isolation market. The dominance of the region is attributable to various factors such as the presence of dominant & key market players in the region, and technological advancements. Asia Pacific region is likely to grow at a faster pace owing to various factors such as the growing population, and government initiatives for infrastructural improvements of healthcare facilities are driving market growth in this region.

The primary interviews conducted for this report can be categorized as follows:

By Respondent: Supply Side- 80%, and Demand Side - 20%

By Designation (Supply Side): Managers - 35%, CXOs & Directors - 20%,

Executives- 45%

By Region: North America -25%, Europe -30%, Asia-Pacific -30%, Latin America -10%, and Middle East and Africa -5%

Lists of Companies Profiled in the Report:

Danaher Corporation (US)

Merck KGaA (Germany)

Thermo Fisher Scientific, Inc. (US)

Becton, Dickinson and Company (US)

Terumo Corporation (Japan)

Agilent Technologies, Inc. (US)

Bio-Rad Laboratories, Inc. (US)

Corning Incorporated (US)

F. Hoffmann-La Roche Ltd. (Switzerland)

Miltenyi Biotec (Germany)

STEMCELL Technologies (Canada)

Alfa Laval (Sweden)

Sartorius AG (Germany)

Akadeum Life Sciences (US)

Bio-Techne (US)

PerkinElmer Inc. (US)

Invent Biotechnologies, Inc. (US)

Takara Bio, Inc. (Japan)

MiCareo Inc. (US)

Proteintech Group, Inc. (US)

QIAGEN (Germany)

Lonza (Switzerland)

Promega Corporation (US)

PluriSelect Life Science UG (Haftungsbeschr?nkt) & Co. KG (Germany)

MagBio Genomics (US)

Research Coverage:

This report provides a detailed picture of the cell isolation market. It aims at estimating the size and future growth potential of the market across different segments, such as product, cell type, cell source, technique, application, end user, and region. The report also includes an in-depth competitive analysis of the key market players, along with their company profiles, recent developments, and key market strategies.

Key Benefits of Buying the Report:

The report will help market leaders/new entrants by providing them with the closest approximations of the revenue numbers for the overall single-use bioreactors market and its subsegments. It will also help stakeholders better understand the competitive landscape and gain more insights to better position their business and make suitable go-to-market strategies. This report will enable stakeholders to understand the market's pulse and provide them with information on the key market drivers, restraints, challenges, trends, and opportunities.

The report provides insights on the following pointers:

Analysis of key drivers (Increasing government funding for cell-based research, increasing number of patients suffering from cancer and infectious diseases, technological advancements), restraints (Ethical & safety issues related to embryonic stem cell isolation, high cost of cell-based research), opportunities (Growth opportunities in emerging markets) and challenges (Obstacles to develop cell therapies) influencing the growth of cell isolation market.

Product Development/Innovation: Detailed insights on newly launched products, and technological assessment of the cell isolation market.

Market Development: Comprehensive information about lucrative markets – the report analyses the cell isolation market across varied regions.

Market Diversification: Exhaustive information about new products, untapped geographies, recent developments, and investments in the cell isolation market.

Competitive Assessment: In-depth assessment of market shares, growth strategies and product offerings of leading players in the cell isolation market. The report also helps stakeholders understand the pulse of single-use bioreactors market and provides them information on key market drivers, restraints, challenges, and opportunities along with market trends.

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