+44 20 8123 2220
info@marketpublishers.com

Cell Isolation Market Report by Technique (Centrifugation, Surface Marker, Filtration), Cell Type (Human Cells, Animal Cells), Product (Consumables, Instruments), Application (Biomolecule Isolation, Therapeutics, Stem Cell Research, Cancer Research, Tissue Regeneration, In-Vitro Diagnostics), End Use (Biotechnology and Biopharmaceutical Companies, Hospitals and Diagnostic Laboratories, Research Laboratories and Institutes, and Others), and Region 2023-2028

https://marketpublishers.com/r/C177055744D0EN.html
Date: November 2023
Pages: 140
Price: US$ 2,499.00 (Single User License)
ID: C177055744D0EN

Abstracts

The global cell isolation market size reached US$ 11.9 Billion in 2022. Looking forward, IMARC Group expects the market to reach US$ 28.5 Billion by 2028, exhibiting a growth rate (CAGR) of 15.7% during 2022-2028. The escalating demand for regenerative medicine and cell-based therapies, the need for efficient isolation techniques, a surge in chronic diseases, and growing investments in biotechnology and life sciences are factors augmenting the market growth.
Cell isolation, a fundamental technique in the realm of life sciences, involves the separation of specific cell populations from complex biological samples. The process operates on the principle of obtaining pure cell subsets for various downstream applications. It begins with sample collection, followed by tissue dissociation to obtain single cells. These cells are then isolated based on distinct characteristics like size, surface markers, or density. The advantages of cell isolation are manifold. It enables precise analysis of cell behavior, gene expression, and protein function, contributing to advancements in disease research and drug development. This technique finds

+44 20 8123 2220
info@marketpublishers.com

application in fields such as cancer research, immunology, and regenerative medicine. There are several methods of cell isolation, including magnetic-activated cell sorting (MACS), fluorescence-activated cell sorting (FACS), and density gradient centrifugation.

The global cell isolation market is influenced by the expanding field of regenerative medicine and the escalating need for efficient cell isolation techniques. Moreover, the rising prevalence of chronic diseases necessitates advanced cell-based therapies, boosting market growth. In line with this, increasing funding and investments in biotechnology and life sciences sectors fuel research and development activities, further propelling the market. Furthermore, the surging interest in personalized medicine amplifies the requirement for precise cell isolation methods, which is augmenting the market growth. Apart from this, the growing focus on cancer research and the need for targeted therapies are facilitating the market growth. Other factors, such as the escalating aging population and surging collaborations between academic institutions and industry players, are favoring the market growth.

Cell Isolation Market Trends/Drivers:

Expanding field of regenerative medicine

The growth of the global cell isolation market is intricately linked to the burgeoning field of regenerative medicine. Regenerative medicine emphasizes harnessing the potential of cells to restore damaged tissues and organs, revolutionizing medical treatment paradigms. As researchers delve deeper into regenerative therapies, the necessity for precise and efficient cell isolation techniques becomes evident. Isolation of specific cell types with high purity is imperative to ensure the success of regenerative procedures. This demand drives the development and adoption of cutting-edge cell isolation technologies, propelling market expansion.

Rising prevalence of chronic diseases

The escalating prevalence of chronic diseases has ignited a pressing need for advanced cell-based therapies, igniting significant growth in the cell isolation market. Chronic conditions such as cardiovascular diseases, diabetes, and neurodegenerative disorders pose substantial challenges to global healthcare systems. Cell-based therapies hold immense promise in addressing these challenges by offering regenerative and personalized treatment approaches. To harness the potential of such therapies, the isolation of viable and functionally intact cells is paramount. This imperative has led to intensified research and development efforts to innovate efficient cell isolation methods that cater to the diverse needs of cell-based treatments, shaping the trajectory of the market.

Funding and investments in biotechnology and life sciences sectors

The cell isolation market experiences an upward trajectory driven by robust funding and investments in the biotechnology and life sciences sectors. Governments, private

+44 20 8123 2220
info@marketpublishers.com

investors, and venture capitalists recognize the transformative potential of breakthroughs in cell isolation techniques for various applications, including disease treatment and drug discovery. Consequently, substantial financial support is channeled into research endeavors aimed at refining and innovating cell isolation technologies. This influx of funds not only fuels the development of novel methodologies but also facilitates the commercialization and accessibility of advanced cell isolation products. The synergy between financial investments and scientific exploration propels the market forward, positioning it at the forefront of medical and technological advancement.

Cell Isolation Industry Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global cell isolation market report, along with forecasts at the global, regional, and country levels for 2023-2028. Our report has categorized the market based on technique, cell type, product, application, and end use.

Breakup by Technique:

Centrifugation
Surface Marker
Filtration

Centrifugation dominates the market

The report has provided a detailed breakup and analysis of the market based on the technique. This includes centrifugation, surface marker, and filtration. According to the report, centrifugation represented the largest segment.

The growth of the centrifugation segment is underpinned by pivotal factors, including the growing awareness regarding the versatility offered by centrifugation techniques, such as isolating a wide range of cell types, from blood components to subcellular organelles. Moreover, the continuous advancements in centrifuge technology, leading to higher processing speeds and improved separation efficiency, contribute to its sustained adoption. Additionally, the established reliability and simplicity of centrifugation methods make them accessible to a broad spectrum of users, including researchers and clinicians. Furthermore, the compatibility of centrifugation with various sample sizes and volumes provides flexibility, catering to different experimental needs. In line with this, its compatibility with various sample sources, such as blood, tissues, and cell cultures, positions centrifugation as a versatile and essential technique in cell isolation workflows, driving its segment growth within the broader market landscape.

Breakup by Cell Type:

Human Cells
Animal Cells

Animal cells hold the largest share in the market

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

+44 20 8123 2220
info@marketpublishers.com

report, animal cells represented the largest segment.
The growth of the animal cell isolation segment is underpinned by the increasing application of animal cells in biomedical research and drug development. In line with this, the expanding field of biopharmaceuticals relies on animal cell cultures for production, intensifying the need for efficient separation methods. Additionally, the rise in regenerative medicine drives the exploration of animal cell-based therapies, necessitating high-quality isolation processes. Moreover, the surge in chronic diseases necessitates advanced disease modeling using animal cells, further propelling the segment's growth. Technological advancements in cell isolation methodologies cater to the intricate requirements of isolating animal cells, fostering market expansion. Collaborations between academic institutions and industry players facilitate knowledge exchange, contributing to innovative solutions in this segment.
Breakup by Product:
Consumables
Reagents, Kits, Media and Sera
Beads
Disposables
Instruments
Centrifuges
Flow Cytometers
Filtration Systems
Magnetic-activated Cell Separator Systems
Consumables dominate the market
The report has provided a detailed breakup and analysis of the market based on the product. This includes consumables (reagents, kits, media and sera, beads, and disposables) and instruments (centrifuges, flow cytometers, filtration systems, and magnetic-activated cell separator systems). According to the report, consumables represented the largest segment.
The consumables segment in the cell isolation market is experiencing substantial growth due to the escalating adoption of cell-based therapies and regenerative medicine, which has led to an increased demand for consumable products used in cell isolation processes. As researchers and clinicians strive to harness the potential of cell therapies, the need for reliable and effective consumables such as reagents, kits, and disposables becomes paramount. Moreover, the rising prevalence of chronic diseases has amplified the focus on precision medicine and personalized treatments, necessitating specific consumables for isolating targeted cell populations. Additionally, advancements in consumable technologies, including improved labeling and tagging agents, have enhanced the accuracy and efficiency of cell isolation procedures. Furthermore, collaborations between research institutions and consumable

manufacturers have driven innovation, leading to the development of specialized products tailored to diverse research needs.

Breakup by Application:

Biomolecule Isolation
Therapeutics
Stem Cell Research
Cancer Research
Tissue Regeneration
In-Vitro Diagnostics

Biomolecule isolation holds the largest share in the market

A detailed breakup and analysis of the market based on the application has also been provided in the report. This includes biomolecule isolation, therapeutics, stem cell research, cancer research, tissue regeneration, and in-vitro diagnostics. According to the report, biomolecule isolation represented the largest segment.

The growth of the biomolecule isolation segment is propelled by several pivotal factors, such as the expanding field of proteomics and genomics research. Additionally, the rising focus on personalized medicine necessitates the extraction of specific biomolecules for diagnostic and therapeutic purposes. Moreover, the pharmaceutical and biotechnology industries increasingly rely on biomolecule isolation to accelerate drug discovery and development processes. Technological advancements, particularly in automation and microfluidics, enhance the efficiency and scalability of isolation methods, further driving market growth. Collaborations between academic institutions and industry players facilitate knowledge exchange, leading to innovative isolation solutions. Furthermore, the growing demand for biomolecules in research applications and the biopharmaceutical sector adds impetus to the segment's expansion.

Breakup by End Use:

Biotechnology and Biopharmaceutical Companies
Hospitals and Diagnostic Laboratories
Research Laboratories and Institutes
Others

Research laboratories and institutes hold the largest share in the market

A detailed breakup and analysis of the market based on the end use has also been provided in the report. This includes biotechnology and biopharmaceutical companies, hospitals and diagnostic laboratories, research laboratories and institutes, and others. According to the report, research laboratories and institutes represented the largest segment.

The growth of the research laboratories and institutes segment is underpinned by the expanding landscape of scientific exploration, which has propelled the demand for cutting-edge technologies. Moreover, the escalating focus on advancements in

+44 20 8123 2220
info@marketpublishers.com

healthcare and life sciences necessitates efficient cell isolation techniques, which is boosting market growth. Apart from this, collaborations between academia and industry amplify research capabilities, stimulating the need for high-quality cell isolation tools. In line with this, increasing funding and grants channel resources toward research institutions, facilitating investment in advanced isolation methodologies. Additionally, the dynamic nature of research demands versatile solutions, boosting the uptake of customizable cell isolation products. Furthermore, the continuous evolution of drug discovery and development intensifies the reliance on robust cell isolation for accurate experimentation.

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

North America exhibits a clear dominance, accounting for the largest cell isolation market share

The market research report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Asia Pacific

+44 20 8123 2220
info@marketpublishers.com

(China, Japan, India, South Korea, Australia, Indonesia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, North America accounted for the largest market share.

North America's growth in the cell isolation market is underpinned by the region's robust healthcare infrastructure and high research expenditure. Moreover, a prevalence of chronic diseases like diabetes and cardiovascular ailments drives the necessity for accurate cell-based therapies, spurring the adoption of efficient isolation methods. In line with this, the presence of major biotechnology and pharmaceutical players, coupled with strong research collaborations between academia and industry, fosters technological innovation. Furthermore, substantial funding from government initiatives and private investments fuels research and development endeavors, enhancing the market's expansion. Apart from this, an increasing focus on personalized medicine and regenerative therapies in North America amplifies the significance of precise cell isolation. Additionally, the region's regulatory framework and stringent quality standards create a conducive environment for the commercialization of innovative cell isolation products, propelling North America's prominent role in the global market.

Competitive Landscape:

The competitive landscape of the global cell isolation market is marked by dynamic factors that shape industry dynamics. Intense research and development activities drive continuous innovation, resulting in the introduction of cutting-edge cell isolation technologies. Market players strive to enhance product portfolios, offering a diverse range of isolation solutions catering to various cell types and applications. Partnerships between academia and industry foster collaborative advancement, contributing to technological breakthroughs. Regulatory compliance and quality standards remain pivotal in this landscape, influencing market entry and expansion strategies. The evolving landscape also witnesses an increasing emphasis on automation and integration of advanced techniques, aimed at improving isolation efficiency and reproducibility. As the market gains traction due to growing medical needs and scientific advancements, competition intensifies, propelling players to differentiate through product efficacy, reliability, and versatility while striving to address the ever-evolving demands of the research and healthcare sectors.

The report has provided a comprehensive analysis of the competitive landscape in the market. Detailed profiles of all major companies have also been provided. Some of the key players in the market include:

Alfa Laval AB
Becton Dickinson and Company
Beckman Coulter Inc. (Danaher Corporation)
Bio-Rad Laboratories Inc.
General Electric Company

+44 20 8123 2220
info@marketpublishers.com

Merck KGaA
Miltenyi Biotec B.V. & Co. KG
pluriSelect Life Science UG (haftungsbeschr?nkt) & Co. KG
Roche Holding AG
STEMCELL Technologies Inc.
Terumo Corporation
Thermo Fisher Scientific Inc.
Recent Developments:
In May 2023, Beckman Coulter introduced a new advanced immunoassay analyser, DxI 9000 Access. The analyser has the capacity to conduct up to 215 tests per hour per square metre (tests/h/m?).
In May 2023, Becton Dickinson and Company announced to invest US$ 80 million in the construction of its third plant in Ciudad Juarez.
In February 2023, Alfa Laval AB is expanding production capacity for heat exchangers in Sweden, Italy, China and the US as part of an increased investment program. For this, it has decided to invest SEK 3.8 billion ($360 million) in a capacity expansion program for heat exchangers
Key Questions Answered in This Report
1. How big is the global cell isolation market?
2. What is the expected growth rate of the global cell isolation market during 2023-2028?
3. What are the key factors driving the global cell isolation market?
4. What has been the impact of COVID-19 on the global cell isolation market?
5. What is the breakup of the global cell isolation market based on the technique?
6. What is the breakup of the global cell isolation market based on the cell type?
7. What is the breakup of the global cell isolation market based on the product?
8. What is the breakup of the global cell isolation market based on the application?
9. What is the breakup of the global cell isolation market based on the end use?
10. What are the key regions in the global cell isolation market?
11. Who are the key players/companies in the global cell isolation market?

+44 20 8123 2220
info@marketpublishers.com

Contents

+44 20 8123 2220
info@marketpublishers.com

+44 20 8123 2220
info@marketpublishers.com

+44 20 8123 2220
info@marketpublishers.com

+44 20 8123 2220
info@marketpublishers.com

+44 20 8123 2220
info@marketpublishers.com

15 PRICE ANALYSIS

16 COMPETITIVE LANDSCAPE

+44 20 8123 2220
info@marketpublishers.com

+44 20 8123 2220
info@marketpublishers.com

List Of Tables

LIST OF TABLES

+44 20 8123 2220
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

+44 20 8123 2220
info@marketpublishers.com

+44 20 8123 2220
info@marketpublishers.com

+44 20 8123 2220
info@marketpublishers.com

+44 20 8123 2220
info@marketpublishers.com

I would like to order

Product name: Cell Isolation Market Report by Technique (Centrifugation, Surface Marker, Filtration), Cell Type (Human Cells, Animal Cells), Product (Consumables, Instruments), Application (Biomolecule Isolation, Therapeutics, Stem Cell Research, Cancer Research, Tissue Regeneration, In-Vitro Diagnostics), End Use (Biotechnology and Biopharmaceutical Companies, Hospitals and Diagnostic Laboratories, Research Laboratories and Institutes, and Others), and Region 2023-2028

Product link: https://marketpublishers.com/r/C177055744D0EN.html

Price: US$ 2,499.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/C177055744D0EN.html

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

**All fields are required

Custumer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms

+44 20 8123 2220
info@marketpublishers.com

& Conditions at https://marketpublishers.com/docs/terms.html

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970