

Global Cell Dissociation Market Report and Forecast 2024-2032

Market Report (7 days) | 2024-02-02 | 160 pages | EMR Inc.

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Report description:

Global Cell Dissociation Market Report and Forecast 2024-2032

Global Cell Dissociation Market Outlook

The global cell disassociation market size was valued at USD 456.1 million in 2023, driven by growing trend towards automation in cell dissociation across the world. The market size is anticipated to grow at a CAGR of 15 % during the forecast period of 2024-2032 to achieve a value of USD 1606.6 million by 2032.

Cell Disassociation: Introduction

Cell dissociation is a laboratory process used to separate individual cells from tissues or cell clusters, transforming them into a single-cell suspension. This technique is essential for various biological and medical applications, including cell culture, cell counting, and various types of analyses like flow cytometry. Cell dissociation can be achieved through enzymatic or mechanical methods, depending on the cell type and the intended downstream application, ensuring the cells remain viable and intact for further study or use.

Key Trends in the Global Cell Disassociation Market

Enzymatic dissociation methods continue to be preferred for their efficiency and the ability to maintain cell viability, especially in sensitive applications like stem cell research and regenerative medicine.

Growing trend towards automation in cell dissociation to increase reproducibility, efficiency, and scalability of cell-based experiments and therapies.

Rising investments in cell therapy research, including stem cell and CAR-T cell therapies, are driving the demand for effective and gentle cell dissociation techniques that preserve cell integrity and functionality. Increased emphasis on gentle dissociation methods to maintain cell surface markers and improve the yield of viable cells for downstream applications.

Development of customized dissociation products tailored to specific cell types and applications, addressing the diverse needs of research and therapeutic fields. Stringent regulatory standards guiding the production and use of dissociation enzymes, ensuring product quality and safety, especially for clinical applications.

Global Cell Disassociation Market Segmentation

Market Breakup by Type

-□Trypsin

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- Papain
- DNase
- Hyaluronidase
- Instruments
- Market Breakup by Tissue Type
- Connective Tissue
- Epithelial Tissue
- Market Breakup by End User
- Pharma
- Biopharma
- Research Institutes
- Market Breakup by Region
- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

Global Cell Disassociation Market Overview

In North America, the cell dissociation market is characterized by strong research activities and advanced biotechnology sectors. There's a significant emphasis on automation and the development of non-enzymatic dissociation products to preserve cell viability and function, crucial for research and therapeutic applications. The region also shows a growing interest in personalized medicine and cell therapy, driving the demand for efficient and reliable cell dissociation techniques.

Europe's cell dissociation market benefits from robust healthcare infrastructure and substantial investments in research and development. The region focuses on adopting gentle and efficient dissociation methods to maintain cell integrity, essential for clinical applications and regenerative medicine. There's also a strong emphasis on standardizing cell dissociation techniques to ensure reproducibility and reliability in research outcomes, aligning with the region's stringent regulatory standards.

The Asia Pacific region is experiencing rapid growth in the cell dissociation market, driven by expanding biotechnology sectors and increasing investments in life sciences research. Countries like China, Japan, and South Korea are at the forefront, emphasizing innovation in cell culture technologies and stem cell research. The region also shows a trend towards adopting advanced dissociation enzymes and equipment, catering to the growing needs of pharmaceutical and biotech industries.

Global Cell Disassociation Market: Competitor Landscape

The key features of the market report include patent analysis, grants analysis, clinical trials analysis, funding and investment analysis, partnerships, and collaborations analysis by the leading key players.

- Merck KGaA
- Danaher Corporation
- Thermo Fisher Scientific, Inc
- Corning Incorporated
- Becton, Dickinson and Company
- STEMCELL Technologies
- Promo Cell GmbH
- Miltenyi Biotec
- ATCC
- HiMedia Laboratories

We at Expert Market Research always strive to provide you with the latest information. The numbers in the article are only indicative and may be different from the actual report.

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