

Cell-based Assay Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Report description:

The global cell-based assay market size reached US\$ 20.7 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 33.6 Billion by 2028, exhibiting a growth rate (CAGR) of 8.3% during 2023-2028.

The market is currently being catalysed by a number of factors, this includes rising investments in research and development, adoption of high throughput screening methods, increasing prevalence of various chronic diseases, growth in drug discovery activities, and the various advantages that cell-based assays offer over alternative technologies.

Cell-based assays refer to any experiment that use live cells. The basic techniques include a variety of assays that can be used for the purpose of measuring cell toxicity, proliferation, motility as well as production of a particular cellular product and cellular morphology. Cell-based assays provide a closer representation of the real life model since it employs live cells during experimentation. Cell-based assays have grown to become a versatile tool in healthcare research and development, particularly in the experiments which are designed to understand functionalities of specific cells like antibodies or drug efficacy on a group of cells.

There has been a significant increase in R&D funding by various public and private organisations so as to develop better and safer drugs. Moreover, technological advancements in cell-based assays have enabled researchers to start using this technology for drug discovery and toxicology studies. Another major factor catalysing the growth of the market is the rising prevalence of lifestyle diseases such as arthritis, diabetes, epilepsy, cancer, cardiovascular diseases, etc. which still have large unmet needs and have led to continuous investments in R&D. In addition, an increase in the adoption of the cell-based assay techniques for high throughput screening methods like toxicity studies, drug screening, in vitro testing, etc. are further driving this market.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global cell-based assay market report, along with

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forecasts at the global and regional level from 2023-2028. Our report has categorized the market based on product and services, technology, application and end-user.

Breakup by Product and Services:

- Consumables
- Reagents and Media
- Cells and Cell Lines
- Probes and Labels
- Instruments
- Microplates
- Microplate Readers
- High Throughput Screening
- Liquid Handling Systems
- Services
- Software

Based on the product and services, the market has been segmented as consumables, instruments, services and software. Currently, the consumables segment dominates the market, holding the largest share.

Breakup by Technology:

- Automated Handling
- Flow Cytometry
- Label-Free Detection
- High-Throughput Screening
- Others

Based on the technology, the market has been segmented as automated handling, flow cytometry, label-free-detection, high-throughput screening, and others.

Breakup by Application:

- Drug Discovery
- Basic Research
- ADME Studies
- Predictive Toxicology
- Others

Based on the application, the market has been segmented as drug discovery, basic research, ADME studies, predictive toxicology and others. Currently, the drug discovery segment dominates the market, holding the largest share.

Breakup by End-User:

- Pharmaceutical and Biotechnology Companies
- Academic and Government Institutions
- Contract Research Organizations

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Others

On the basis of end-user, the market has been segmented as pharmaceutical and biotechnology companies; academic and government institutions; contract research organizations; and others.

Breakup by Region:

North America

Europe

Asia Pacific

Middle East and Africa

Latin America

Region-wise, the market has been segmented into North America, Europe, Asia Pacific, Middle East and Africa, and Latin America. Amongst these, North America is the leading market, accounting for the majority of the market share.

Competitive Landscape:

The competitive landscape of the market has also been examined with some of the key players being Becton Dickinson and Company, GE Healthcare Biopharma (Danaher Corporation), Thermo Fisher Scientific Inc., Merck Group, Perkinelmer Inc., Charles River Laboratories Inc., Lonza Group Ltd., Cell Signaling Technology Inc., Promega Corporation, Cell Biolabs Inc., Eurofins DiscoverX Corporation, Bio-Rad Laboratories Inc., Corning Inc. and F. Hoffmann-La Roche AG (Roche Holding AG).

This report provides a deep insight into the global cell-based assay market covering all its essential aspects. This ranges from macro overview of the market to micro details of the industry performance, recent trends, key market drivers and challenges, SWOT analysis, Porter's five forces analysis, value chain analysis, etc. This report is a must-read for entrepreneurs, investors, researchers, consultants, business strategists, and all those who have any kind of stake or are planning to foray into the cell-based assay industry in any manner.

Key Questions Answered in This Report

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

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