

North America Stem Cell Assay Market Report and Forecast 2024-2032

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Report description:

North America Stem Cell Assay Market Report and Forecast 2024-2032

North America Stem Cell Assay Market Outlook

The North America stem cell assay market size was valued at USD 7.1 billion in 2023, driven by the increased investment in stem cell research in the region. The market is expected to grow at a CAGR of 10.10% during the forecast period of 2024-2032, with the values likely to rise from USD 7.8 billion in 2024 to USD 16.9 billion by 2032.

Key Takeaways

- In May 2023, a study published in Cell Reports Medicine revealed that a cancer stem cell assay called ChemolD can accurately predict clinical outcomes in response to chemotherapy, improving the survival of patients with recurrent glioblastoma.
- In April 2023, Discovery Life Sciences acquired ReachBio Research Labs to expand its offerings in drug discovery and preclinical development by leveraging ReachBio's expertise in primary cell biology, particularly blood and bone marrow stem cell assays.
- According to the American Cancer Society, it is estimated that 2,001,140 new cancer cases and 611,720 cancer deaths are projected to occur in the United States in 2024.

Stem cell assay is a laboratory technique that helps to evaluate the behavior and function of stem cells. These assays find their applications in studying stem cell biology and assessing their potential therapeutic use. The rising cases of various chronic diseases in the region such as cancer are expected to directly impact the demand for novel treatment options, thereby driving the North America stem cell assay market growth. For instance, according to the American Cancer Society, it is estimated that 2,001,140 new cancer cases and 611,720 cancer deaths are projected to occur in the United States in 2024. Further, increased applications of stem cell assays in drug discovery and regenerative medicine are likely to augment the market size in the forecast period.

In North America, the rising impetus for stem cell research is resulting in advancements in stem cell assay methods and therapies. The development of innovative methods is expected to boost North America stem cell assay market demand as they can assist healthcare professionals in personalizing chemotherapy selection for cancer patients and in identifying the most effective therapy

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for each patient. In May 2023, a study published in Cell Reports Medicine revealed that a cancer stem cell assay called ChemoID can accurately predict clinical outcomes in response to chemotherapy, improving the survival of patients with recurrent glioblastoma. In the randomized trial, the group guided by the ChemoID assay showed a median survival of 12.5 months, compared to 9 months in the physician-choice group. These findings offer a promising approach to providing more affordable treatment for patients with recurrent glioblastoma in lower socioeconomic groups in the United States.

North America stem cell assay market share is likely to be impacted by increased merger and acquisition initiatives among the key market players. In April 2023, a United States-based company specializing in biospecimen, biomarker, and proteogenomics Discovery Life Sciences acquired ReachBio Research Labs, a life sciences company based in Seattle known for their cell-based assays, drug screening services, and predictive hematotoxicity. The acquisition will enable Discovery Life Science to expand its offerings in drug discovery and preclinical development by leveraging ReachBio's expertise in primary cell biology, particularly blood and bone marrow stem cell assays. The growing number of such strategic partnerships is anticipated to accelerate market growth in the coming years.

Other factors that fuel the market growth are the advancements in stem cell technologies resulting in enhanced efficiency and throughput of stem cell assays, increased healthcare expenditure, and rising funding for stem cell-based research. Further, the growing demand for personalized medicine and precision therapies will accelerate the market growth in the region.

North America Stem Cell Assay Market Segmentation??

"North America Stem Cell Assay Market Report and Forecast 2024-2032" offers a detailed analysis of the market based on the following segments:

Market Breakup by Product & Service

- Flow Cytometers
- Cell Imaging & Analysis Systems
- Microelectrode Arrays
- Automated Cell Counters
- Kits

Market Breakup by Cell Type

- Adult Stem Cells
- Human Embryonic Stem Cells
- Pluripotent

Market Breakup by Type

- Viability/Cytotoxicity Assays
- Isolation & Purification Assays
- Cell Identification Assays
- Proliferation Assays
- Differentiation Assays
- Function Assays
- Apoptosis Assays
- Others

Market Breakup by Treatment

- Allogeneic Stem Cell Therapy
- Autologous Stem Cell Therapy
- Syngeneic Stem Cell Therapy

Market Breakup by Application

- Regenerative Medicine & Therapy Development
- Drug Discovery & Development
- Clinical Research
- Others

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Market Breakup by End User

- Biopharmaceutical & Biotechnology Companies
- Academic & Research Institutes
- Others

Market Breakup by Countries

- United States of America
- Canada

North America Stem Cell Assay Market: Competitor Landscape

The key features of the market report include patent analysis, funding and investment analysis, partnerships, and collaborations analysis by the leading key players. The major companies in the market are as follows:

- Thermo Fisher Scientific
- Perkinelmer
- Stemcell Technologies
- Merck
- Bio-Rad Laboratories
- Agilent Technologies
- Promega
- Bio-Techne
- Cell Biolabs

Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

FAQs

- What was the North America stem cell assay market value in 2023?

The market attained a value of about USD 7.1 billion in 2023 driven by the increased investment in stem cell research in the region.

- What is the North America stem cell assay market forecast outlook for 2024-2032?

The market is anticipated to grow at a CAGR of 10.08% during the forecast period of 2024-2032, likely to reach a market value of USD 16.9 billion by 2032.

- What are the major factors aiding the North America stem cell assay market demand?

The growing prevalence of chronic diseases and the rising healthcare expenditure are fuelling the demand for the market.

- What are the major North America stem cell assay market trends?

One of the significant trends in the market is the increased merger and acquisition initiatives among the key market players. In April 2023, Discovery Life Sciences acquired ReachBio Research Labs, a life sciences company based in Seattle known for its cell-based assays, drug screening services, and predictive hematotoxicity.

- What is the market segmentation based on product and services?

Based on the product and services, the market is segmented into flow cytometers, cell imaging and analysis systems, microelectrode arrays, automated cell counters, and kits.

- What are the various treatments available in the market?

Treatments available in the market include allogeneic stem cell therapy, autologous stem cell therapy, and syngeneic stem cell therapy.

- What is the market breakup by type?

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By type, the market is divided into viability/cytotoxicity assays, isolation and purification assays, cell identification assays, proliferation assays, differentiation assays, function assays, and apoptosis assays, among others.

-□What is the market segmentation based on the cell type?

The market breakup by cell type includes adult stem cells, human embryonic stem cells, and pluripotent.

-□What are the major end users of stem cell assay?

End users of the market are biopharmaceutical and biotechnology companies, as well as academic and research institutes, among others.

-□What are the applications of stem cell assay?

Major applications areas of stem cell assays include regenerative medicine and therapy development, drug discovery and development, along with clinical research, among others.

-□What is the market segmentation by countries?

The market segmentation by countries includes the United States of America and Canada.

-□Who are the key players involved in the North America stem cell assay market?

The key market players include Thermo Fisher Scientific, PerkinElmer, Stemcell Technologies, Merck, Bio-Rad Laboratories, Agilent Technologies, Promega, Bio-Techne, and Cell Biolabs.

Meta description

The North America stem cell assay market size was valued at USD 7.1 billion in 2023 and it is anticipated to grow at a CAGR of 10.08% during the forecast period of 2024-2032.

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*Additional insights provided are customisable as per client requirements.

* The coverage of the Market Landscape section depends on the data availability and may cover a minimum of 80% of the total market. The EMR team strives to make this section as comprehensive as possible.

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