

# **Europe Stem Cell Assay Market Report and Forecast 2024-2032**

Market Report | 2024-06-26 | 140 pages | EMR Inc.

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# Report description:

Europe Stem Cell Assay Market Report and Forecast 2024-2032

Europe Stem Cell Assay Market Outlook

The global stem cell assay market size was valued at USD 6.4 billion in 2023, with Europe holding a significant market share. The market is driven by the rising technological innovations in the field of stem cell assays. It is expected to grow at a CAGR of 20.10% during the forecast period of 2024-2032, with the values likely to attain USD 19.4 billion by 2032.

# **Key Takeaways**

- On January 1, 2023, it was estimated that more than one-fifth of the population of the European Union was aged 65 years and above. The rising aging population fuels the need for novel therapeutic solutions, which directly impacts the market demand.
- One of the major Europe stem cell assay market trends is the rising technological advancements in the field of stem cell assays such as automation and high-throughput screening technologies which are likely to boost efficiency and improve the accuracy of stem cell research and testing.
- The rising impetus for stem cell research coupled with the presence of a robust research infrastructure in the region is likely to elevate market value. For instance, in June 2023, the University of Cambridge initiated a stem cell-based human embryo model project in the United Kingdom.

Europe Stem Cell Assay Market Analysis

Stem cell assays are laboratory tests that are used to evaluate the behavior or function of stem cells. In Europe, they are widely utilized in clinical and research settings to obtain data on stem cell differentiation, viability, and proliferation, among others. These assays are increasingly employed in cancer research and regenerative medicine to find potential treatments for various diseases. The rising prevalence of chronic conditions including diabetes, cardiovascular diseases, and neurodegenerative disorders is expected to drive the Europe stem cell assay market growth in the coming years.

The market is significantly impacted by the rising aging population. On January 1, 2023, it was estimated that more than one-fifth

of the population of the European Union was aged 65 years and above, with the median age reaching 44.5 years. This growing size of the aging population in Europe reflects the need for novel therapeutic solutions, including those developed through stem cell research, which is likely to drive the market demand in the forecast period.

The rising integration of advanced and automated cell counting methods to assess stem cell viability is leading to a reduction in analyst-dependent variability and the analytical time in research labs and manufacturing facilities. This is anticipated to propel the Europe stem cell assay market demand. Additionally, these rising technological advancements in the field of stem cell assays such as high-throughput screening technologies are likely to boost efficiency and improve the accuracy of stem cell research and testing, thereby supporting market growth.

In Europe, the rising emphasis for stem cell research coupled with the presence of an established research infrastructure in the region is accelerating market growth. For instance, in June 2023, the University of Cambridge launched a project involving stem cell-based human embryo models in the United Kingdom. Such stem cell-based research activities are likely to augment the demand for various types of stem cell assays to understand stem cell biology and consequently develop stem cell therapies, ultimately elevating the market value.

Europe Stem Cell Assay Market Segmentation??

Market Breakup by Cell Type

- Adult Stem Cells
- Human Embryonic Stem Cells
- -[]Pluripotent

Market Breakup by Type

- -□Viability/Cytotoxicity Assays
- Isolation and Purification Assays
- Cell Identification Assays
- -□Proliferation Assays
- -□Differentiation Assays
- -□Function Assays
- Apoptosis Assays
- -∏Others

Market Breakup by Product and Service

- Flow Cytometers
- -□Cell Imaging and Analysis Systems
- Microelectrode Arrays
- Automated Cell Counters
- -[Kits

Market Breakup by Treatment

- —Allogeneic Stem Cell Therapy
- - $\square$ Autologous Stem Cell Therapy
- -□Syngeneic Stem Cell Therapy

Market Breakup by Application

- Regenerative Medicine and Therapy Development
- -□Drug Discovery and Development
- -□Clinical Research
- -∏Others

Market Breakup by End User

- Biopharmaceutical and Biotechnology Companies
- -□Academic and Research Institutes
- -□Others

Market Breakup by Countries

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- -□United Kingdom
- -□Germany
- -∏France
- -□Italy
- Others

Europe 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
- □ Perkin Elmer
- -∏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.

#### FAOs

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

The Europe stem cell assay market is expected to be driven by the rising demand for the global stem cell assay market, which is anticipated to grow at a CAGR of 13.18% during the forecast period of 2024-2032 and is likely to reach a market value of USD 19.4 billion by 2032.

-\|\What are the major factors aiding the Europe stem cell assay market demand?

The rising application of stem cell assays in cancer research and regenerative medicine to find potential treatments for various chronic conditions is fuelling the demand for the market.

- What are the major Europe stem cell assay market trends?

One of the significant trends in the market is the increased stem cell-based research activities which are likely to augment the demand for various types of stem cell assays. For instance, in June 2023, the University of Cambridge launched a project involving stem cell-based human embryo models in the United Kingdom.

-- 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 is the market breakup by type?

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 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

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therapy.

-□What are the applications of stem cell assay?

Major applications include regenerative medicine and therapy development, drug discovery and development, as well as clinical research, among others.

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

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

- What is the market segmentation by countries?

The market segmentation by countries includes the United Kingdom, Germany, France, and Italy, among others.

-\(\text{Who are the key players involved in the Europe stem cell assay market?}\)

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

Meta description

Europe stem cell assay market is poised for growth, driven by the expansion of the global market, which was valued at USD 6.4 billion in 2023 and is projected to grow at a CAGR of 13.18% during the forecast period of 2024-2032.

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<sup>\*</sup>Additional insights provided are customisable as per client requirements.

<sup>\*</sup> 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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