

Middle East and Africa Stem Cell Assay Market Report and Forecast 2024-2032

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

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Report description:

Middle East and Africa Stem Cell Assay Market Report and Forecast 2024-2032

Middle East and Africa Stem Cell Assay Market Size

The global stem cell assay market was valued at USD 6.4 billion in 2023, with the Middle East and Africa holding a significant market share. The market is driven by the rising demand for regenerative medicine. It is expected to grow at a CAGR of 16.3% during the forecast period of 2024-2032, with the values likely to attain USD 19.4 billion by 2032.

Middle East and Africa Stem Cell Assay Market Outlook

- In sub-Saharan Africa, disease burden and mortality from chronic non-communicable diseases have reached an epidemic threshold, which calls for the urgent need for innovative treatment options such as stem cell therapies. Thus, this growing chronic disease burden is likely to fuel the market demand.

- The increasing investment in the establishment and infrastructure development of stem cell facilities is poised to boost the Middle East and Africa stem cell assay market share. For instance, in 2023, the Dubai Healthcare City (DHCC) opened the first-ever good manufacturing practice (GMP), a cleanroom-graded facility in the United Arab Emirates, equipped with the ability to duplicate and manufacture stem cells.

- The market share is also influenced by the rising demand for regenerative medicine and precision treatments along with the growing adoption of technologically advanced stem cell assays and techniques.

Middle East and Africa Stem Cell Assay Market Analysis

A stem cell assay is used to assess the properties and functionality of stem cells. It plays a crucial role in the development of stem cell research and therapy. The expansion of the global stem cell assay market is resulting in the increasing introduction of technologically advanced stem cell assays and techniques, such as automated systems for cell culturing and high-throughput screening methods, in the Middle East and African countries. Further, the rising demand for regenerative medicine and precision treatment approaches to combat the rising disease burden and improve patient outcomes is expected to accelerate the Middle East and Africa stem cell assay market growth in the coming years.

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Recent data suggests that chronic non-communicable diseases (CNCDs) are responsible for the death of over 41 million people every year, accounting for 71% of all deaths worldwide. In sub-Saharan Africa, disease burden and mortality from chronic non-communicable diseases have reached an epidemic threshold, which calls for the urgent need for effective interventions including stem cell therapies. Thus, this growing prevalence of such chronic conditions is likely to fuel stem cell research, which is poised to augment the Middle East and Africa stem cell assay market demand for developing and testing new therapies. One of the major market trends is the rising impetus on stem cell research and the increasing investment in the establishment and infrastructure development of stem cell facilities. For instance, in 2023, the Dubai Healthcare City (DHCC), a designated free zone specializing in healthcare and medical research opened the first-ever good manufacturing practice (GMP), cleanroom-graded facility in the United Arab Emirates. The site is equipped with the ability to duplicate and manufacture stem cells along with storage in the advanced cryogenic bank. Such significant investments in the advancement of stem cell facilities are anticipated to elevate the market value in the forecast period.

Middle East and Africa Stem Cell Assay Market Segmentation??

The report offers a detailed analysis of the market based on the following segments:

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 & Analysis Systems
- ?□Microelectrode Arrays
- ?□Automated Cell Counters
- ?□Kits

Market Breakup by Treatment

- ?□Allogeneic Stem Cell Therapy
- ?□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

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? Academic and Research Institutes

? Others

Market Breakup by Country

- Saudi Arabia

- United Arab Emirates

- Nigeria

- South Africa

- Others

Leading Players in the Middle East and Africa Stem Cell Assay Market

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 is the Middle East and Africa stem cell assay market forecast outlook for 2024-2032?

The Middle East and Africa stem cell assay market is expected to be driven by the rising demand for the global 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 Middle East and Africa stem cell assay market demand?

The rising prevalence of chronic diseases and the growing impetus on stem cell research are fuelling the demand for the market.

- What are the major Middle East and Africa stem cell assay market trends?

One of the significant trends is the rising investments in the advancement of stem cell facilities. For instance, in 2023, the Dubai Healthcare City (DHCC) opened the first-ever good manufacturing practice (GMP), a cleanroom-graded facility in the United Arab Emirates, equipped with the ability to duplicate and manufacture stem cells.

- 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 products and services?

Based on the product and services, the market is segmented into flow cytometers, cell imaging and analysis systems,

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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 are the applications of stem cell assay?

Major applications of stem cell assay 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 Saudi Arabia, the United Arab Emirates, Nigeria, and South Africa, among others.

-□Who are the key players involved in the Middle East and Africa 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

The Middle East and Africa 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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*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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