

# **Global Stem Cell Assay Market Size study, By Type (Viability/Cytotoxicity, Isolation & Purification, Cell Identification, Proliferation, Differentiation, Function, Apoptosis), By Cell Type (Adult Stem Cells, Human embryonic stem cells (hESCs)), By Product & Service (Instruments, Kits, Services), By Application (Regenerative Medicine & Therapy Development, Drug Discovery & Development, Clinical Research), By End User (Biopharmaceutical & Biotechnology Companies, Research Institutes), and Regional Forecasts 2022-2028**

<https://marketpublishers.com/r/G951C8086AAEEN.html>

Date: March 2022

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: G951C8086AAEEN

## **Abstracts**

Global Stem Cell Assay Market is valued approximately USD 1.14 billion in 2021 and is anticipated to grow with a healthy growth rate of more than 20.1% over the forecast period 2022-2028.

Stem cells are a type of undifferentiated biological cells that have the ability to distinguish into specialized cells and produce more stem cells. Stem cell assays are a method to analyze living cells on the basis of various parameters such as size, shape, and others. These assays are majorly adopted for measuring cellular and biochemical functions by the utilization of functional cells as diagnostic tools in the research of new drugs. These assays also help in measuring cell proliferation, toxicity, and motility. The growing availability of funding for stem cell research, increasing incidences of diseases such as cardiovascular, CNS, diabetes, and many others, the technological developments in stem cell-based research instruments coupled with the introduction of

novel stem cell products are the primary factors that are augmenting the market demand around the world. For instance, as per the American Heart Association, cardiovascular diseases (CVD) are one of the major causes of death worldwide with nearly 17.6 million deaths in 2016. Also, the amount is projected to reach around 23.6 million by 2030. Therefore, the increasing occurrence of CVD is propelling the demand for stem cell assay, which, in turn, drives market growth. However, the high cost of stem cell analysis instruments and reagents and ethical issues associated with embryonic stem cell research impedes the growth of the market over the forecast period of 2022-2028. Also, the emergence of microfluidics in stem cell research and the high growth potential of single stem cell analysis sequencing is anticipated to act as a catalyzing factor for the market demand during the forecast period.

The key regions considered for the global Stem Cell Assay market study include Asia Pacific, North America, Europe, Latin America, and the Rest of the World. North America is the leading region across the world in terms of market share owing to the growing awareness about stem cell assays, increasing government investments in the field, and the presence of leading market players in the region. Whereas, Asia-Pacific is anticipated to exhibit the highest CAGR over the forecast period 2022-2028. Factors such as the availability of favorable regulatory guidelines, as well as rising investment in the healthcare infrastructural development, would create lucrative growth prospects for the Stem Cell Assay market across the Asia-Pacific region.

Major market players included in this report are:

Merck KGaA

Thermo Fisher Scientific Inc.

GE Healthcare Company

Agilent Technologies Inc.

Bio-Rad Laboratories Inc.

Promega Corporation

Cell Biolabs Inc.

PerkinElmer Inc.

Bio-Techne Corporation

Cellular Dynamics International Inc.

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming eight years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within each of the regions and countries involved in the study. Furthermore, the report also caters the detailed information about the crucial aspects such as driving factors &

challenges which will define the future growth of the market. Additionally, the report shall also incorporate available opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and Type offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Type:

Viability/Cytotoxicity

Isolation & Purification

Cell Identification

Proliferation

Differentiation

Function

Apoptosis

By Cell Type:

Adult Stem Cells

Human embryonic stem cells (hESCs)

By Product & Service:

Instruments

Kits

Services

By Application:

Regenerative Medicine & Therapy Development

Drug Discovery & Development

Clinical Research

By End User:

Biopharmaceutical & Biotechnology Companies

Research Institutes

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China  
India  
Japan  
Australia  
South Korea  
RoAPAC  
Latin America  
Brazil  
Mexico  
Rest of the World

Furthermore, years considered for the study are as follows:

Historical year – 2018, 2019, 2020  
Base year – 2021  
Forecast period – 2022 to 2028

Target Audience of the Global Stem Cell Assay Market in Market Study:

Key Consulting Companies & Advisors  
Large, medium-sized, and small enterprises  
Venture capitalists  
Value-Added Resellers (VARs)  
Third-party knowledge providers  
Investment bankers  
Investors

## Contents

### CHAPTER 1. EXECUTIVE SUMMARY

- 1.1. Market Snapshot
- 1.2. Global & Segmental Market Estimates & Forecasts, 2020-2028 (USD Billion)
  - 1.2.1. Global Stem Cell Assay Market, by Region, 2020-2028 (USD Billion)
  - 1.2.2. Global Stem Cell Assay Market, by Type, 2020-2028 (USD Billion)
  - 1.2.3. Global Stem Cell Assay Market, by Cell Type, 2020-2028 (USD Billion)
  - 1.2.4. Global Stem Cell Assay Market, by Product & Service, 2020-2028 (USD Billion)
  - 1.2.5. Global Stem Cell Assay Market, by Application, 2020-2028 (USD Billion)
  - 1.2.6. Global Stem Cell Assay Market, by End User, 2020-2028 (USD Billion)
- 1.3. Key Trends
- 1.4. Estimation Methodology
- 1.5. Research Assumption

### CHAPTER 2. GLOBAL STEM CELL ASSAY MARKET DEFINITION AND SCOPE

- 2.1. Objective of the Study
- 2.2. Market Definition & Scope
  - 2.2.1. Scope of the Study
  - 2.2.2. Industry Evolution
- 2.3. Years Considered for the Study
- 2.4. Currency Conversion Rates

### CHAPTER 3. GLOBAL STEM CELL ASSAY MARKET DYNAMICS

- 3.1. Stem Cell Assay Market Impact Analysis (2020-2028)
  - 3.1.1. Market Drivers
    - 3.1.1.1. Growing availability of funding for stem cell research
    - 3.1.1.2. Increasing prevalence of target indications
  - 3.1.2. Market Challenges
    - 3.1.2.1. High cost of stem cell analysis instruments and reagents
    - 3.1.2.2. Ethical issues associated to embryonic stem cell research
  - 3.1.3. Market Opportunities
    - 3.1.3.1. Emergence of microfluidics in stem cell research
    - 3.1.3.2. High growth potential of single stem cell analysis sequencing

### CHAPTER 4. GLOBAL STEM CELL ASSAY MARKET INDUSTRY ANALYSIS

*Global Stem Cell Assay Market Size study, By Type (Viability/Cytotoxicity, Isolation & Purification, Cell Iden...*

#### 4.1. Porter's 5 Force Model

- 4.1.1. Bargaining Power of Suppliers
- 4.1.2. Bargaining Power of Buyers
- 4.1.3. Threat of New Entrants
- 4.1.4. Threat of Substitutes
- 4.1.5. Competitive Rivalry
- 4.1.6. Futuristic Approach to Porter's 5 Force Model (2019-2028)

#### 4.2. PEST Analysis

- 4.2.1. Political
- 4.2.2. Economical
- 4.2.3. Social
- 4.2.4. Technological

#### 4.3. Investment Adoption Model

#### 4.4. Analyst Recommendation & Conclusion

#### 4.5. Top investment opportunity

#### 4.6. Top winning strategies

### **CHAPTER 5. RISK ASSESSMENT: COVID-19 IMPACT**

#### 5.1.1. Assessment of the overall impact of COVID-19 on the industry

#### 5.1.2. Pre COVID-19 and post COVID-19 market scenario

### **CHAPTER 6. GLOBAL STEM CELL ASSAY MARKET, BY TYPE**

#### 6.1. Market Snapshot

#### 6.2. Global Stem Cell Assay Market by Type, Performance - Potential Analysis

#### 6.3. Global Stem Cell Assay Market Estimates & Forecasts by Type 2019-2028 (USD Billion)

#### 6.4. Stem Cell Assay Market, Sub Segment Analysis

- 6.4.1. Viability/Cytotoxicity
- 6.4.2. Isolation & Purification
- 6.4.3. Cell Identification
- 6.4.4. Proliferation
- 6.4.5. Differentiation
- 6.4.6. Function
- 6.4.7. Apoptosis

### **CHAPTER 7. GLOBAL STEM CELL ASSAY MARKET, BY CELL TYPE**

- 7.1. Market Snapshot
- 7.2. Global Stem Cell Assay Market by Cell Type, Performance - Potential Analysis
- 7.3. Global Stem Cell Assay Market Estimates & Forecasts by Cell Type 2019-2028 (USD Billion)
- 7.4. Stem Cell Assay Market, Sub Segment Analysis
  - 7.4.1. Adult Stem Cells
  - 7.4.2. Human embryonic stem cells (hESCs)

## **CHAPTER 8. GLOBAL STEM CELL ASSAY MARKET, BY PRODUCT & SERVICE**

- 8.1. Market Snapshot
- 8.2. Global Stem Cell Assay Market by Product & Service, Performance - Potential Analysis
- 8.3. Global Stem Cell Assay Market Estimates & Forecasts by Product & Service 2019-2028 (USD Billion)
- 8.4. Stem Cell Assay Market, Sub Segment Analysis
  - 8.4.1. Instruments
  - 8.4.2. Kits
  - 8.4.3. Services

## **CHAPTER 9. GLOBAL STEM CELL ASSAY MARKET, BY APPLICATION**

- 9.1. Market Snapshot
- 9.2. Global Stem Cell Assay Market by Application, Performance - Potential Analysis
- 9.3. Global Stem Cell Assay Market Estimates & Forecasts by Application 2019-2028 (USD Billion)
- 9.4. Stem Cell Assay Market, Sub Segment Analysis
  - 9.4.1. Regenerative Medicine & Therapy Development
  - 9.4.2. Drug Discovery & Development
  - 9.4.3. Clinical Research

## **CHAPTER 10. GLOBAL STEM CELL ASSAY MARKET, BY END USER**

- 10.1. Market Snapshot
- 10.2. Global Stem Cell Assay Market by End User, Performance - Potential Analysis
- 10.3. Global Stem Cell Assay Market Estimates & Forecasts by End User 2019-2028 (USD Billion)
- 10.4. Stem Cell Assay Market, Sub Segment Analysis

10.4.1. Biopharmaceutical & Biotechnology Companies

10.4.2. Research Institutes

## **CHAPTER 11. GLOBAL STEM CELL ASSAY MARKET, REGIONAL ANALYSIS**

11.1. Stem Cell Assay Market, Regional Market Snapshot

11.2. North America Stem Cell Assay Market

11.2.1. U.S. Stem Cell Assay Market

11.2.1.1. Type estimates & forecasts, 2019-2028

11.2.1.2. Cell Type estimates & forecasts, 2019-2028

11.2.1.3. Product & Service estimates & forecasts, 2019-2028

11.2.1.4. Application estimates & forecasts, 2019-2028

11.2.1.5. End User estimates & forecasts, 2019-2028

11.2.2. Canada Stem Cell Assay Market

11.3. Europe Stem Cell Assay Market Snapshot

11.3.1. U.K. Stem Cell Assay Market

11.3.2. Germany Stem Cell Assay Market

11.3.3. France Stem Cell Assay Market

11.3.4. Spain Stem Cell Assay Market

11.3.5. Italy Stem Cell Assay Market

11.3.6. Rest of Europe Stem Cell Assay Market

11.4. Asia-Pacific Stem Cell Assay Market Snapshot

11.4.1. China Stem Cell Assay Market

11.4.2. India Stem Cell Assay Market

11.4.3. Japan Stem Cell Assay Market

11.4.4. Australia Stem Cell Assay Market

11.4.5. South Korea Stem Cell Assay Market

11.4.6. Rest of Asia Pacific Stem Cell Assay Market

11.5. Latin America Stem Cell Assay Market Snapshot

11.5.1. Brazil Stem Cell Assay Market

11.5.2. Mexico Stem Cell Assay Market

11.6. Rest of The World Stem Cell Assay Market

## **CHAPTER 12. COMPETITIVE INTELLIGENCE**

12.1. Top Market Strategies

12.2. Company Profiles

12.2.1. Merck KGaA

12.2.1.1. Key Information



- 12.2.1.2. Overview
- 12.2.1.3. Financial (Subject to Data Availability)
- 12.2.1.4. Type Summary
- 12.2.1.5. Recent Developments
- 12.2.2. Thermo Fisher Scientific Inc.
- 12.2.3. GE Healthcare Company
- 12.2.4. Agilent Technologies Inc.
- 12.2.5. Bio-Rad Laboratories Inc.
- 12.2.6. Promega Corporation
- 12.2.7. Cell Biolabs Inc.
- 12.2.8. PerkinElmer Inc.
- 12.2.9. Bio-Techne Corporation
- 12.2.10. Cellular Dynamics International Inc.

## **CHAPTER 13. RESEARCH PROCESS**

- 13.1. Research Process
  - 13.1.1. Data Mining
  - 13.1.2. Analysis
  - 13.1.3. Market Estimation
  - 13.1.4. Validation
  - 13.1.5. Publishing
- 13.2. Research Attributes
- 13.3. Research Assumption

## List Of Tables

### LIST OF TABLES

TABLE 1. Global Stem Cell Assay Market, report scope

TABLE 2. Global Stem Cell Assay Market estimates & forecasts by Region 2019-2028 (USD Billion)

TABLE 3. Global Stem Cell Assay Market estimates & forecasts by Type 2019-2028 (USD Billion)

TABLE 4. Global Stem Cell Assay Market estimates & forecasts by Cell Type 2019-2028 (USD Billion)

TABLE 5. Global Stem Cell Assay Market estimates & forecasts by Product & Service 2019-2028 (USD Billion)

TABLE 6. Global Stem Cell Assay Market estimates & forecasts by Application 2019-2028 (USD Billion)

TABLE 7. Global Stem Cell Assay Market estimates & forecasts by End User 2019-2028 (USD Billion)

TABLE 8. Global Stem Cell Assay Market by segment, estimates & forecasts, 2019-2028 (USD Billion)

TABLE 9. Global Stem Cell Assay Market by region, estimates & forecasts, 2019-2028 (USD Billion)

TABLE 10. Global Stem Cell Assay Market by segment, estimates & forecasts, 2019-2028 (USD Billion)

TABLE 11. Global Stem Cell Assay Market by region, estimates & forecasts, 2019-2028 (USD Billion)

TABLE 12. Global Stem Cell Assay Market by segment, estimates & forecasts, 2019-2028 (USD Billion)

TABLE 13. Global Stem Cell Assay Market by region, estimates & forecasts, 2019-2028 (USD Billion)

TABLE 14. Global Stem Cell Assay Market by segment, estimates & forecasts, 2019-2028 (USD Billion)

TABLE 15. Global Stem Cell Assay Market by region, estimates & forecasts, 2019-2028 (USD Billion)

TABLE 16. Global Stem Cell Assay Market by segment, estimates & forecasts, 2019-2028 (USD Billion)

TABLE 17. Global Stem Cell Assay Market by region, estimates & forecasts, 2019-2028 (USD Billion)

TABLE 18. U.S. Stem Cell Assay Market estimates & forecasts, 2019-2028 (USD Billion)

TABLE 19. U.S. Stem Cell Assay Market estimates & forecasts by segment 2019-2028 (USD Billion)

TABLE 20. U.S. Stem Cell Assay Market estimates & forecasts by segment 2019-2028 (USD Billion)

TABLE 21. Canada Stem Cell Assay Market estimates & forecasts, 2019-2028 (USD Billion)

TABLE 22. Canada Stem Cell Assay Market estimates & forecasts by segment 2019-2028 (USD Billion)

TABLE 23. Canada Stem Cell Assay Market estimates & forecasts by segment 2019-2028 (USD Billion)

TABLE 24. UK Stem Cell Assay Market estimates & forecasts, 2019-2028 (USD Billion)

TABLE 25. UK Stem Cell Assay Market estimates & forecasts by segment 2019-2028 (USD Billion)

TABLE 26. UK Stem Cell Assay Market estimates & forecasts by segment 2019-2028 (USD Billion)

TABLE 27. Germany Stem Cell Assay Market estimates & forecasts, 2019-2028 (USD Billion)

TABLE 28. Germany Stem Cell Assay Market estimates & forecasts by segment 2019-2028 (USD Billion)

TABLE 29. Germany Stem Cell Assay Market estimates & forecasts by segment 2019-2028 (USD Billion)

TABLE 30. RoE Stem Cell Assay Market estimates & forecasts, 2019-2028 (USD Billion)

TABLE 31. RoE Stem Cell Assay Market estimates & forecasts by segment 2019-2028 (USD Billion)

TABLE 32. RoE Stem Cell Assay Market estimates & forecasts by segment 2019-2028 (USD Billion)

TABLE 33. China Stem Cell Assay Market estimates & forecasts, 2019-2028 (USD Billion)

TABLE 34. China Stem Cell Assay Market estimates & forecasts by segment 2019-2028 (USD Billion)

TABLE 35. China Stem Cell Assay Market estimates & forecasts by segment 2019-2028 (USD Billion)

TABLE 36. India Stem Cell Assay Market estimates & forecasts, 2019-2028 (USD Billion)

TABLE 37. India Stem Cell Assay Market estimates & forecasts by segment 2019-2028 (USD Billion)

TABLE 38. India Stem Cell Assay Market estimates & forecasts by segment 2019-2028 (USD Billion)

TABLE 39. Japan Stem Cell Assay Market estimates & forecasts, 2019-2028 (USD Billion)

TABLE 40. Japan Stem Cell Assay Market estimates & forecasts by segment 2019-2028 (USD Billion)

TABLE 41. Japan Stem Cell Assay Market estimates & forecasts by segment 2019-2028 (USD Billion)

TABLE 42. RoAPAC Stem Cell Assay Market estimates & forecasts, 2019-2028 (USD Billion)

TABLE 43. RoAPAC Stem Cell Assay Market estimates & forecasts by segment 2019-2028 (USD Billion)

TABLE 44. RoAPAC Stem Cell Assay Market estimates & forecasts by segment 2019-2028 (USD Billion)

TABLE 45. Brazil Stem Cell Assay Market estimates & forecasts, 2019-2028 (USD Billion)

TABLE 46. Brazil Stem Cell Assay Market estimates & forecasts by segment 2019-2028 (USD Billion)

TABLE 47. Brazil Stem Cell Assay Market estimates & forecasts by segment 2019-2028 (USD Billion)

TABLE 48. Mexico Stem Cell Assay Market estimates & forecasts, 2019-2028 (USD Billion)

TABLE 49. Mexico Stem Cell Assay Market estimates & forecasts by segment 2019-2028 (USD Billion)

TABLE 50. Mexico Stem Cell Assay Market estimates & forecasts by segment 2019-2028 (USD Billion)

TABLE 51. RoLA Stem Cell Assay Market estimates & forecasts, 2019-2028 (USD Billion)

TABLE 52. RoLA Stem Cell Assay Market estimates & forecasts by segment 2019-2028 (USD Billion)

TABLE 53. RoLA Stem Cell Assay Market estimates & forecasts by segment 2019-2028 (USD Billion)

TABLE 54. Row Stem Cell Assay Market estimates & forecasts, 2019-2028 (USD Billion)

TABLE 55. Row Stem Cell Assay Market estimates & forecasts by segment 2019-2028 (USD Billion)

TABLE 56. Row Stem Cell Assay Market estimates & forecasts by segment 2019-2028 (USD Billion)

TABLE 57. List of secondary sources, used in the study of global Stem Cell Assay Market

TABLE 58. List of primary sources, used in the study of global Stem Cell Assay Market

TABLE 59. Years considered for the study

TABLE 60. Exchange rates considered

## List Of Figures

### LIST OF FIGURES

- FIG 1. Global Stem Cell Assay Market, research methodology
- FIG 2. Global Stem Cell Assay Market, market estimation techniques
- FIG 3. Global market size estimates & forecast methods
- FIG 4. Global Stem Cell Assay Market, key trends 2021
- FIG 5. Global Stem Cell Assay Market, growth prospects 2022-2028
- FIG 6. Global Stem Cell Assay Market, porters 5 force model
- FIG 7. Global Stem Cell Assay Market, pest analysis
- FIG 8. Global Stem Cell Assay Market, value chain analysis
- FIG 9. Global Stem Cell Assay Market by segment, 2019 & 2028 (USD Billion)
- FIG 10. Global Stem Cell Assay Market by segment, 2019 & 2028 (USD Billion)
- FIG 11. Global Stem Cell Assay Market by segment, 2019 & 2028 (USD Billion)
- FIG 12. Global Stem Cell Assay Market by segment, 2019 & 2028 (USD Billion)
- FIG 13. Global Stem Cell Assay Market by segment, 2019 & 2028 (USD Billion)
- FIG 14. Global Stem Cell Assay Market, regional snapshot 2019 & 2028
- FIG 15. North America Stem Cell Assay Market 2019 & 2028 (USD Billion)
- FIG 16. Europe Stem Cell Assay Market 2019 & 2028 (USD Billion)
- FIG 17. Asia pacific market 2019 & 2028 (USD Billion)
- FIG 18. Latin America Stem Cell Assay Market 2019 & 2028 (USD Billion)
- FIG 19. Global Stem Cell Assay Market, company market share analysis (2021)

## I would like to order

Product name: Global Stem Cell Assay Market Size study, By Type (Viability/Cytotoxicity, Isolation & Purification, Cell Identification, Proliferation, Differentiation, Function, Apoptosis), By Cell Type (Adult Stem Cells, Human embryonic stem cells (hESCs)), By Product & Service (Instruments, Kits, Services), By Application (Regenerative Medicine & Therapy Development, Drug Discovery & Development, Clinical Research), By End User (Biopharmaceutical & Biotechnology Companies, Research Institutes), and Regional Forecasts 2022-2028

Product link: <https://marketpublishers.com/r/G951C8086AAEEN.html>

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G951C8086AAEEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:

Last name:

Email:

Company:

Address:

City:

Zip code:

Country:

Tel:

Fax:

Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970