

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

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Abstracts

The global stem cell manufacturing market size reached US\$ 12.3 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 19.9 Billion by 2028, exhibiting a growth rate (CAGR) of 8.1% during 2023-2028.

Stem cells are undifferentiated or partially differentiated cells that make up the tissues and organs of animals and plants. They are commonly sourced from blood, bone marrow, umbilical cord, embryo, and placenta. Under the right body and laboratory conditions, stem cells can divide to form more cells, such as red blood cells (RBCs), platelets, and white blood cells, which generate specialized functions. They are widely used for human disease modeling, drug discovery, development of cell therapies for untreatable diseases, gene therapy, and tissue engineering. Stem cells are cryopreserved to maintain their viability and minimize genetic change and are consequently used later to replace damaged organs and tissues and treat various diseases.

Stem Cell Manufacturing Market Trends:

The global market is primarily driven by the increasing venture capital (VC) investments in stem cell research due to the rising awareness about the therapeutic potency of stem cells. Apart from this, the widespread product utilization in effective disease management, personalized medicine, and genome testing applications are favoring the market growth. Additionally, the incorporation of three-dimensional (3D) printing and microfluidic technologies to reduce production time and lower cost by integrating multiple production steps into one device is providing an impetus to the market growth. Furthermore, the increasing product utilization in the pharmaceutical industry for manufacturing hematopoietic stem cells (HSC)- and mesenchymal stem cells

(MSC)-based drugs for treating tumors, leukemia, and lymphoma is acting as another growth-inducing factor. Moreover, the increasing product application in research applications to produce new drugs that assist in improving functions and altering the progress of diseases is providing a considerable boost to the market. Other factors, including the increasing usage of the technique in tissue and organ replacement therapies, significant improvements in medical infrastructure, and the implementation of various government initiatives promoting public health, are anticipated to drive the market.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global stem cell manufacturing market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on product, application and end user.

Breakup by Product:

- Consumables
- Culture Media
- Others
- Instruments
- Bioreactors and Incubators
- Cell Sorters
- Others
- Stem Cell Lines
- Hematopoietic Stem Cells (HSC)
- Mesenchymal Stem Cells (MSC)
- Induced Pluripotent Stem Cells (iPSC)
- Embryonic Stem Cells (ESC)
- Neural Stem Cells (NSC)
- Multipotent Adult Progenitor Stem Cells

Breakup by Application:

- Research Applications
- Life Science Research
- Drug Discovery and Development
- Clinical Application
- Allogenic Stem Cell Therapy

Autologous Stem Cell Therapy
Cell and Tissue Banking Applications

Breakup by End User:

Pharmaceutical & Biotechnology Companies
Academic Institutes, Research Laboratories and Contract Research Organizations
Hospitals and Surgical Centers
Cell and Tissue banks
Others

Breakup by Region:

North America
United States
Canada
Asia-Pacific
China
Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Anterogen Co. Ltd., Becton Dickinson and Company, Bio-Rad Laboratories Inc., Bio-Techne Corporation, Corning Incorporated, FUJIFILM Holdings Corporation, Lonza Group AG, Merck KGaA, Sartorius AG, Takara Bio Inc. and Thermo Fisher Scientific Inc.

Key Questions Answered in This Report

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

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