

Stem Cell Manufacturing Market by Product (Consumables, Instruments, Stem Cell Lines), Application (Research, Clinical, Cell Tissue & Banking), End User, Region (North America, Europe, APAC, Latin America, MEA) - Global Forecast to 2028

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Abstracts

The stem cell manufacturing market is projected to reach USD 21.8 billion by 2028 from USD 12.7 billion in 2023, at a CAGR of 11.3% during the forecast period. The major factors driving the increasing prevalence of genetic diseases and increasing regulatory approvals on stem cell therapies are expected to propel the growth of the market. However, the high costs of research and manufacturing are expected to restrain market growth to a certain extent.

The stem cell manufacturing market has been segmented based on product, application, end-user, and region.

“By-products, the consumables segment accounted for the largest share of the stem cell manufacturing market.”

Based on products, the stem cell manufacturing market is categorized into consumables, instruments, and stem cell lines. The consumables segment dominated the market in 2023, owing to rising demand for stem cell-based research, increasing government funding and initiatives, and the rising number of collaborations between academic institutions and pharmaceutical companies has led to a higher growth rate for products in the stem cell manufacturing market.

“By application, research application segment accounted for the largest share in the stem cell manufacturing market.”

Based on application, the stem cell manufacturing market is segmented into research applications, clinical applications, and cell & tissue banking applications. In 2023, the research application segment accounted for a larger share of the stem cell manufacturing market. Growth in this market segment can be attributed to a rising focus on stem cell cytology & pathophysiology research, growing awareness about the therapeutic potency of stem cells among researchers and healthcare professionals, growing public-private funding to support stem cell product development and commercialization, and technological advancements related to the effective production scale-up for stem cell products.

“North America: the largest share of the stem cell manufacturing market”

North America accounted for the largest share of the stem cell manufacturing market. The large share of the North American region can be attributed to a well-established healthcare and biotechnology industry in the region, with advanced infrastructure, cutting-edge research institutions, and a strong ecosystem of biotechnology companies and CROs specializing in stem cell research. The presence of top academic institutions and private companies in North America with dedicated stem cell research programs and expertise has contributed to the growth of the stem cell manufacturing market.

“Asia Pacific: The fastest-growing region in the stem cell manufacturing market.”

The Asia Pacific stem cell manufacturing market is projected to grow at the highest CAGR during the forecast period. This is attributed to the increasing demand for personalized medicine and advancements in stem cell-based therapies. Another key driver for the Asia Pacific stem cell manufacturing market is the region's large and rapidly increasing population.

The primary interviews conducted for this report can be categorized as follows:

By Respondent: Supply Side- 63% and Demand Side- 37%

By Designation: C Level Executives - 45%, Director Level- 30%, and Others - 25%

By Country: North America- 40%, Europe- 25%, Asia Pacific- 20%, Latin America - 10%, and Middle East Africa- 5%

Prominent Players

Thermo Fisher Scientific, Inc. (US)

Merck KGaA (Germany)

Lonza Group (Switzerland)

Danaher Corporation (US)

Sartorius AG (Germany)

Becton, Dickinson, and Company (US)

Eppendorf AG (Germany)

Corning Inc. (US)

Bio-Rad Laboratories (US)

Takara Bio Group (Japan)

Fujifilm Holdings Corporation (Japan)

Getinge AB (Sweden)

Terumo Corporation (Japan)

Bio-Techne Corporation (US)

HiMedia Laboratories (India)

StemCell Technologies, Inc. (Canada)

Miltenyi Biotec GmbH (Germany)

PromoCell (Germany), Anterogen Co. Ltd. (South Korea)

CellGenix GmbH (India)

Pluristem Therapeutics Inc. (Israel)

Daiichi Sankyo (Japan)

Organogenesis Holdings Inc. (US)

Vericel Corporation (US)

American Cryostem Corporation (US)

Research Coverage:

This report provides a detailed picture of the stem cell manufacturing market. It aims at estimating the size and future growth potential of the market across different segments, such as the product (Consumables (culture media, and other consumables), instruments (Bioreactors & Incubators, cell sorters, and other instruments), and stem cell lines (hematopoietic stem cells, mesenchymal stem cells, induced pluripotent stem cells, embryonic stem cells, neural stem cells, and multipotent adult progenitor stem cells), application (research applications (life science research, and drug discovery and development), clinical applications (allogeneic stem cell therapy, and autologous stem cell therapy), and cell & tissue banking applications), and end-user (hospitals & surgical centers, pharmaceutical & biotechnology companies, cell & tissue banks, academic institutes, research laboratories, and CROs, and other end users) and region (North America, Europe, Asia Pacific, Latin America, and Middle East Africa). The report also includes an in-depth competitive analysis of the key market players, along with their company profiles, recent developments, and key market strategies.

Key Benefits of Buying the Report:

The report will help market leaders/new entrants by providing them with the closest approximations of the revenue numbers for the overall stem cell manufacturing market and its segments. It will also help stakeholders better understand the competitive landscape and gain more insights to better position their business and make suitable go-to-market strategies. This report will enable stakeholders to understand the market's pulse and provide them with information on the key market drivers, restraints, trends, opportunities, and challenges.

The report provides insights on the following pointers:

Analysis of key drivers (growing venture capital investments in stem cell research, increasing awareness about the therapeutic potency of stem cell products, and technological advancements in stem cell manufacturing), restraints (significant operational costs associated with stem cell manufacturing and banking), opportunities (development of new vaccine and treatment of genetic diseases in Asia Pacific region, government initiatives to boost the biotechnology and biopharmaceutical industries, and increased market focus on mesenchymal stem cells and induced pluripotent stem cells), and challenges (technical limitations associated with manufacturing scale-up, and socio-ethical concerns related to the use of allogeneic and human embryonic stem cells) influencing the growth of the stem cell manufacturing market.

Product Development/ Innovation: Detailed insights on upcoming technologies, research and development activities, and new product launches in the stem cell manufacturing market.

Market Development: Comprehensive information about lucrative markets- the report analyses the stem cell manufacturing market across varied regions.

Market Diversification: Exhaustive information about new products, untapped geographies, recent developments, and investments in the stem cell manufacturing market.

Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players like Merck KGaA (Germany), Lonza Group (Switzerland), and Danaher Corporation (US), among others, in the stem cell manufacturing market strategies. The report also helps stakeholders understand the pulse of the stem cell manufacturing market and provides them with information on key market drivers, restraints, challenges, and opportunities.

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