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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%

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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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Contents

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OTHER ORGANIZATIONS
TABLE 10 LATIN AMERICA: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS
TABLE 11 MIDDLE EAST & AFRICA: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS
5.10 PRICING ANALYSIS
TABLE 12 AVERAGE SELLING PRICE OF PRODUCTS OFFERED BY KEY PLAYERS
5.10.1 AVERAGE SELLING PRICE TREND ANALYSIS
5.11 PATENT ANALYSIS
FIGURE 19 GRANTED PATENTS FOR STEM CELL MANUFACTURING, 2011–2023*
TABLE 13 TOP OWNERS OF STEM CELL MANUFACTURING PATENTS
5.12 KEY CONFERENCES & EVENTS IN 2023–2024
TABLE 14 STEM CELL MANUFACTURING CONFERENCES (2023–2024)
5.13 KEY STAKEHOLDERS & BUYING CRITERIA
5.13.1 KEY STAKEHOLDERS IN BUYING PROCESS
FIGURE 20 STEM CELL MANUFACTURING MARKET: INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS
5.13.2 STEM CELL MANUFACTURING MARKET: BUYING CRITERIA
FIGURE 21 KEY BUYING CRITERIA FOR END USERS

6 STEM CELL MANUFACTURING MARKET, BY PRODUCT

6.1 INTRODUCTION
TABLE 15 STEM CELL MANUFACTURING MARKET, BY PRODUCT,

2021–2028 (USD MILLION)

6.2 CONSUMABLES
TABLE 16 STEM CELL MANUFACTURING MARKET FOR CONSUMABLES, BY TYPE,

2021–2028 (USD MILLION)

TABLE 17 STEM CELL MANUFACTURING MARKET FOR CONSUMABLES, BY REGION, 2021–2028 (USD MILLION)
TABLE 18 NORTH AMERICA: STEM CELL MANUFACTURING MARKET FOR CONSUMABLES, BY COUNTRY, 2021–2028 (USD MILLION)
TABLE 19 EUROPE: STEM CELL MANUFACTURING MARKET FOR CONSUMABLES,

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TABLE 105 ASIA PACIFIC: STEM CELL MANUFACTURING MARKET FOR CELL & TISSUE BANKING APPLICATIONS, BY COUNTRY, 2021–2028 (USD MILLION)

8 STEM CELL MANUFACTURING MARKET, BY END USER

8.1 INTRODUCTION
TABLE 106 STEM CELL MANUFACTURING MARKET, BY END USER,

2021–2028 (USD MILLION)

8.2 PHARMACEUTICAL & BIOTECHNOLOGY COMPANIES
8.2.1 INCREASING PRIVATE INVESTMENTS FOR STEM CELL-BASED RESEARCH TO DRIVE MARKET GROWTH
TABLE 107 STEM CELL MANUFACTURING MARKET FOR PHARMACEUTICAL & BIOTECHNOLOGY COMPANIES, BY REGION, 2021–2028 (USD MILLION)
TABLE 108 NORTH AMERICA: STEM CELL MANUFACTURING MARKET FOR PHARMACEUTICAL & BIOTECHNOLOGY COMPANIES, BY COUNTRY,

2021–2028 (USD MILLION)

TABLE 109 EUROPE: STEM CELL MANUFACTURING MARKET FOR PHARMACEUTICAL & BIOTECHNOLOGY COMPANIES, BY COUNTRY, 2021–2028 (USD MILLION)
TABLE 110 ASIA PACIFIC: STEM CELL MANUFACTURING MARKET FOR PHARMACEUTICAL & BIOTECHNOLOGY COMPANIES, BY COUNTRY, 2021–2028 (USD MILLION)
8.3 ACADEMIC INSTITUTES, RESEARCH LABORATORIES, AND CONTRACT RESEARCH ORGANIZATIONS
8.3.1 INCREASED PUBLIC FUNDING FOR RESEARCH ACTIVITIES TO BOOST MARKET
TABLE 111 STEM CELL MANUFACTURING MARKET FOR ACADEMIC INSTITUTES, RESEARCH LABORATORIES, AND CROS, BY REGION,

2021–2028 (USD MILLION)

TABLE 112 NORTH AMERICA: STEM CELL MANUFACTURING MARKET FOR ACADEMIC INSTITUTES, RESEARCH LABORATORIES, AND CROS, BY COUNTRY,

2021–2028 (USD MILLION)

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TABLE 151 CANADA: STEM CELL MANUFACTURING MARKET FOR CLINICAL APPLICATIONS, BY TYPE, 2021–2028 (USD MILLION)
TABLE 152 CANADA: STEM CELL MANUFACTURING MARKET, BY END USER,

2021–2028 (USD MILLION)

9.2.3 NORTH AMERICA: IMPACT OF RECESSION
9.3 EUROPE
TABLE 153 EUROPE: STEM CELL MANUFACTURING MARKET, BY COUNTRY,

2021–2028 (USD MILLION)

TABLE 154 EUROPE: STEM CELL MANUFACTURING MARKET, BY PRODUCT,

2021–2028 (USD MILLION)

TABLE 155 EUROPE: STEM CELL MANUFACTURING MARKET FOR CONSUMABLES,
BY TYPE, 2021–2028 (USD MILLION)
TABLE 156 EUROPE: STEM CELL MANUFACTURING MARKET FOR INSTRUMENTS,
BY TYPE, 2021–2028 (USD MILLION)
TABLE 157 EUROPE: STEM CELL MANUFACTURING MARKET FOR STEM CELL LINES,
BY TYPE, 2021–2028 (USD MILLION)
TABLE 158 EUROPE: STEM CELL MANUFACTURING MARKET, BY APPLICATION,

2021–2028 (USD MILLION)

TABLE 159 EUROPE: STEM CELL MANUFACTURING MARKET FOR RESEARCH APPLICATIONS, BY TYPE, 2021–2028 (USD MILLION)
TABLE 160 EUROPE: STEM CELL MANUFACTURING MARKET FOR CLINICAL APPLICATIONS, BY TYPE, 2021–2028 (USD MILLION)
TABLE 161 EUROPE: STEM CELL MANUFACTURING MARKET, BY END USER,

2021–2028 (USD MILLION)

9.3.1 GERMANY
9.3.1.1 Strong growth in biotechnology industry to drive market

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TABLE 162 GERMANY: STEM CELL MANUFACTURING MARKET, BY PRODUCT,

2021–2028 (USD MILLION)

TABLE 163 GERMANY: STEM CELL MANUFACTURING MARKET FOR CONSUMABLES,
BY TYPE, 2021–2028 (USD MILLION)
TABLE 164 GERMANY: STEM CELL MANUFACTURING MARKET FOR INSTRUMENTS,
BY TYPE, 2021–2028 (USD MILLION)
TABLE 165 GERMANY: STEM CELL MANUFACTURING MARKET FOR STEM CELL LINES,
BY TYPE, 2021–2028 (USD MILLION)
TABLE 166 GERMANY: STEM CELL MANUFACTURING MARKET, BY APPLICATION,

2021–2028 (USD MILLION)

TABLE 167 GERMANY: STEM CELL MANUFACTURING MARKET FOR RESEARCH APPLICATIONS, BY TYPE, 2021–2028 (USD MILLION)
TABLE 168 GERMANY: STEM CELL MANUFACTURING MARKET FOR CLINICAL APPLICATIONS, BY TYPE, 2021–2028 (USD MILLION)
TABLE 169 GERMANY: STEM CELL MANUFACTURING MARKET, BY END USER,

2021–2028 (USD MILLION)

9.3.2 FRANCE
9.3.2.1 Government support in stem cell manufacturing to drive market
TABLE 170 FRANCE: STEM CELL MANUFACTURING MARKET, BY PRODUCT,

2021–2028 (USD MILLION)

TABLE 171 FRANCE: STEM CELL MANUFACTURING MARKET FOR CONSUMABLES,
BY TYPE, 2021–2028 (USD MILLION)
TABLE 172 FRANCE: STEM CELL MANUFACTURING MARKET FOR INSTRUMENTS,
BY TYPE, 2021–2028 (USD MILLION)
TABLE 173 FRANCE: STEM CELL MANUFACTURING MARKET FOR STEM CELL

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9.3.4 ITALY
9.3.4.1 Initiatives encouraging development of cell & gene therapy to boost demand for stem cell manufacturing
TABLE 186 ITALY: STEM CELL MANUFACTURING MARKET, BY PRODUCT,

2021–2028 (USD MILLION)

TABLE 187 ITALY: STEM CELL MANUFACTURING MARKET FOR CONSUMABLES, BY TYPE, 2021–2028 (USD MILLION)
TABLE 188 ITALY: STEM CELL MANUFACTURING MARKET FOR INSTRUMENTS, BY TYPE, 2021–2028 (USD MILLION)
TABLE 189 ITALY: STEM CELL MANUFACTURING MARKET FOR STEM CELL LINES,
BY TYPE, 2021–2028 (USD MILLION)
TABLE 190 ITALY: STEM CELL MANUFACTURING MARKET, BY APPLICATION,

2021–2028 (USD MILLION)

TABLE 191 ITALY: STEM CELL MANUFACTURING MARKET FOR RESEARCH APPLICATIONS, BY TYPE, 2021–2028 (USD MILLION)
TABLE 192 ITALY: STEM CELL MANUFACTURING MARKET FOR CLINICAL APPLICATIONS, BY TYPE, 2021–2028 (USD MILLION)
TABLE 193 ITALY: STEM CELL MANUFACTURING MARKET, BY END USER,

2021–2028 (USD MILLION)

9.3.5 SPAIN
9.3.5.1 Increasing demand for precision medicine to drive growth
TABLE 194 SPAIN: STEM CELL MANUFACTURING MARKET, BY PRODUCT,

2021–2028 (USD MILLION)

TABLE 195 SPAIN: STEM CELL MANUFACTURING MARKET FOR CONSUMABLES, BY TYPE, 2021–2028 (USD MILLION)
TABLE 196 SPAIN: STEM CELL MANUFACTURING MARKET FOR INSTRUMENTS, BY TYPE, 2021–2028 (USD MILLION)
TABLE 197 SPAIN: STEM CELL MANUFACTURING MARKET FOR STEM CELL LINES,

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BY TYPE, 2021–2028 (USD MILLION)
TABLE 198 SPAIN: STEM CELL MANUFACTURING MARKET, BY APPLICATION,

2021–2028 (USD MILLION)

TABLE 199 SPAIN: STEM CELL MANUFACTURING MARKET FOR RESEARCH APPLICATIONS, BY TYPE, 2021–2028 (USD MILLION)
TABLE 200 SPAIN: STEM CELL MANUFACTURING MARKET FOR CLINICAL APPLICATIONS, BY TYPE, 2021–2028 (USD MILLION)
TABLE 201 SPAIN: STEM CELL MANUFACTURING MARKET, BY END USER,

2021–2028 (USD MILLION)

9.3.6 REST OF EUROPE
TABLE 202 REST OF EUROPE: STEM CELL MANUFACTURING MARKET, BY PRODUCT, 2021–2028 (USD MILLION)
TABLE 203 REST OF EUROPE: STEM CELL MANUFACTURING MARKET FOR CONSUMABLES, BY TYPE, 2021–2028 (USD MILLION)
TABLE 204 REST OF EUROPE: STEM CELL MANUFACTURING MARKET FOR INSTRUMENTS, BY TYPE, 2021–2028 (USD MILLION)
TABLE 205 REST OF EUROPE: STEM CELL MANUFACTURING MARKET FOR STEM CELL LINES, BY TYPE, 2021–2028 (USD MILLION)
TABLE 206 REST OF EUROPE: STEM CELL MANUFACTURING MARKET, BY APPLICATION, 2021–2028 (USD MILLION)
TABLE 207 REST OF EUROPE: STEM CELL MANUFACTURING MARKET FOR RESEARCH APPLICATIONS, BY TYPE, 2021–2028 (USD MILLION)
TABLE 208 REST OF EUROPE: STEM CELL MANUFACTURING MARKET FOR CLINICAL APPLICATIONS, BY TYPE, 2021–2028 (USD MILLION)
TABLE 209 REST OF EUROPE: STEM CELL MANUFACTURING MARKET, BY END USER, 2021–2028 (USD MILLION)
9.3.7 EUROPE: IMPACT OF RECESSION
9.4 ASIA PACIFIC
FIGURE 23 ASIA PACIFIC: STEM CELL MANUFACTURING MARKET SNAPSHOT
TABLE 210 ASIA PACIFIC: STEM CELL MANUFACTURING MARKET, BY COUNTRY,

2021–2028 (USD MILLION)

TABLE 211 ASIA PACIFIC: STEM CELL MANUFACTURING MARKET, BY PRODUCT,

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