

Cell Cryopreservation Market Size, Trends, Analysis, and Outlook By Product (Cell Freezing Media, Equipment, Consumables), By Application (Stem Cells, Oocytes and Embryotic cells, Sperm Cells, Hepatocytes, Others), By End-User (Biopharmaceutical & Pharmaceutical Companies, Research Institutes, Biobanks, IVF clinics, Others), by Region, Country, Segment, and Companies, 2024-2030

<https://marketpublishers.com/r/C1176638E986EN.html>

Date: March 2024

Pages: 190

Price: US\$ 3,980.00 (Single User License)

ID: C1176638E986EN

Abstracts

The global Cell Cryopreservation market size is poised to register 22.57% growth from 2024 to 2030, presenting significant growth prospects for companies operating in the industry. The industry study analyzes the global Cell Cryopreservation market across By Product (Cell Freezing Media, Equipment, Consumables), By Application (Stem Cells, Oocytes and Embryotic cells, Sperm Cells, Hepatocytes, Others), By End-User (Biopharmaceutical & Pharmaceutical Companies, Research Institutes, Biobanks, IVF clinics, Others).

The Cell Cryopreservation Market is experiencing significant growth and technological advancement in 2024 and beyond, driven by the growing demand for long-term preservation, storage, and biobanking of cellular materials, stem cells, and biological specimens for research, clinical applications, and regenerative medicine purposes that require cryogenic storage solutions, cryoprotectant agents, and controlled freezing technologies to maintain cell viability, genetic stability, and functional integrity during freezing, thawing, and storage processes in biobanking facilities, research laboratories, and cell therapy manufacturing centers worldwide. Cell cryopreservation involves the preservation of cells, tissues, or biological samples at ultra-low temperatures (-80°C to

-196°C) using cryoprotectant solutions, cryogenic storage containers, and liquid nitrogen vapor-phase storage systems to prevent ice crystal formation, cellular damage, or degradation of cellular components, ensuring long-term storage stability, sample viability, and sample quality for future research, clinical testing, or therapeutic applications in translational medicine, precision medicine, and personalized healthcare initiatives. Key trends include the development of novel cryopreservation techniques, cryoprotective formulations, and vitrification protocols that improve cell survival rates, post-thaw recovery, and functional outcomes in cryopreserved samples, as well as the adoption of automated cryogenic storage systems, robotic handling platforms, and closed cryopreservation devices that enhance sample traceability, data management, and workflow efficiency in cryobanking operations, biorepository management, and biobanking networks. Additionally, there is a growing emphasis on regulatory compliance, quality standards, and accreditation requirements that govern cryopreservation practices, sample handling procedures, and documentation controls in biobanking facilities, as well as a growing focus on cryopreservation services, cryobanking solutions, and cryogenic storage infrastructure offered by contract service providers, biotechnology companies, and academic research institutions to support cryogenic storage, sample archiving, and biopreservation needs of researchers, clinicians, and biopharmaceutical developers worldwide.

Cell Cryopreservation Market Drivers, Trends, Opportunities, and Growth Opportunities

This comprehensive study discusses the latest trends and the most pressing challenges for industry players and investors. The Cell Cryopreservation market research analyses the global market trends, key drivers, challenges, and opportunities in the industry. In addition, the latest Future of Cell Cryopreservation survey report provides the market size outlook across types, applications, and other segments across the world and regions. It provides data-driven insights and actionable recommendations for companies in the Cell Cryopreservation industry.

Key market trends defining the global Cell Cryopreservation demand in 2024 and Beyond

The industry continues to remain an attractive hub for opportunities for both domestic and global vendors. As the market evolves, factors such as emerging market dynamics, demand from end-user sectors, a growing patient base, changes in consumption patterns, and widening distribution channels continue to play a major role.

Cell Cryopreservation Market Segmentation- Industry Share, Market Size, and Outlook

to 2030

The Cell Cryopreservation industry comprises a wide range of segments and sub-segments. The rising demand for these product types and applications is supporting companies to increase their investment levels across niche segments. Accordingly, leading companies plan to generate a large share of their future revenue growth from expansion into these niche segments. The report presents the market size outlook across segments to support Cell Cryopreservation companies scaling up production in these sub-segments with a focus on expanding into emerging countries.

Key strategies adopted by companies within the Cell Cryopreservation industry

Leading Cell Cryopreservation companies are boosting investments to capitalize on untapped potential and future possibilities across niche market segments and surging demand conditions in key regions. Further, companies are leveraging advanced technologies to unlock opportunities and achieve operational excellence. The report provides key strategies opted for by the top 10 Cell Cryopreservation companies.

Cell Cryopreservation Market Study- Strategic Analysis Review

The Cell Cryopreservation market research report dives deep into the qualitative factors shaping the market, empowering you to make informed decisions-

Industry Dynamics: Porter's Five Forces analysis to understand bargaining power, competitive rivalry, and threats that impact long-term strategy formulation.

Strategic Insights: Provides valuable perspectives on key players and their approaches based on comprehensive strategy analysis.

Internal Strengths and Weaknesses: Develop targeted strategies to leverage strengths, address weaknesses, and capitalize on market opportunities.

Future Possibilities: Prepare for diverse outcomes with in-depth scenario analysis. Explore potential market disruptions, technology advancements, and economic changes.

Cell Cryopreservation Market Size Outlook- Historic and Forecast Revenue in Three

Cell Cryopreservation Market Size, Trends, Analysis, and Outlook By Product (Cell Freezing Media, Equipment, C...

Cases

The Cell Cryopreservation industry report provides a detailed analysis and outlook of revenue generated by companies from 2018 to 2023. Further, with actual data for 2023, the report forecasts the market size outlook from 2024 to 2030 in three case scenarios- low case, reference case, and high case scenarios.

Cell Cryopreservation Country Analysis and Revenue Outlook to 2030

The report analyses 22 countries worldwide including the key driving forces and market size outlook from 2021 to 2030. In addition, region analysis across Asia Pacific, Europe, the Middle East, Africa, North America, and South America is included in the study. For each of the six regions, the market size outlook by segments is forecast for 2030.

North America Cell Cryopreservation Market Size Outlook- Companies plan for focused investments in a changing environment

The US continues to remain the market leader in North America, driven by a large consumer base, the presence of well-established providers, and a strong end-user industry demand. Leading companies focus on new product launches in the changing environment. The US economy is expected to grow in 2024 (around 2.2% growth in 2024), potentially driving demand for various Cell Cryopreservation market segments. Similarly, Strong end-user demand is encouraging Canadian Cell Cryopreservation companies to invest in niche segments. Further, as Mexico continues to strengthen its trade relations and invest in technological advancements, the Mexico Cell Cryopreservation market is expected to experience significant expansion, offering lucrative opportunities for both domestic and international stakeholders.

Europe Cell Cryopreservation Market Size Outlook-Companies investing in assessing consumers, categories, competitors, and capabilities

The German industry remains the major market for companies in the European Cell Cryopreservation industry with consumers in Germany, France, the UK, Spain, Italy, and others anticipated to register a steady demand throughout the forecast period, driving the overall market prospects. In addition, the proactive approach of businesses in identifying and leveraging new growth prospects positions the European Cell Cryopreservation market for an upward trajectory, fostering both domestic and international interest. Leading brands operating in the industry are emphasizing effective marketing strategies, innovative product offerings, and a keen understanding

of consumer preferences.

Asia Pacific Cell Cryopreservation Market Size Outlook- an attractive hub for opportunities for both local and global companies

The increasing prevalence of indications, robust healthcare expenditure, and increasing investments in healthcare infrastructure drive the demand for Cell Cryopreservation in Asia Pacific. In particular, China, India, and South East Asian Cell Cryopreservation markets present a compelling outlook for 2030, acting as a magnet for both domestic and multinational manufacturers seeking growth opportunities. Similarly, with a burgeoning population and a rising middle class, India offers a vast consumer market. Japanese and Korean companies are quickly aligning their strategies to navigate changes, explore new markets, and enhance their competitive edge. Our report utilizes in-depth interviews with industry experts and comprehensive data analysis to provide a comprehensive outlook of 6 major markets in the region.

Latin America Cell Cryopreservation Market Size Outlook- Continued urbanization and rising income levels

Rising income levels contribute to greater purchasing power among consumers, spurring consumption and creating opportunities for market expansion. Continued urbanization and rising income levels are expected to sustainably drive consumption growth in the medium to long term.

Middle East and Africa Cell Cryopreservation Market Size Outlook- continues its upward trajectory across segments

Robust demand from Middle Eastern countries including Saudi Arabia, the UAE, Qatar, Kuwait, and other GCC countries supports the overall Middle East Cell Cryopreservation market potential. Fueled by increasing healthcare expenditure of individuals, growing population, and high prevalence across a few markets drives the demand for Cell Cryopreservation.

Cell Cryopreservation Market Company Profiles

The global Cell Cryopreservation market is characterized by intense competitive conditions with leading companies opting for aggressive marketing to gain market shares. The report presents business descriptions, SWOT analysis, growth strategies, and financial profiles. Leading companies included in the study are BioLife Solutions

Inc, Corning Inc, Creative Biolabs, HiMedia Laboratories, Lonza, Merck KGaA, PromoCell GmbH, Sartorius AG, Thermo Fisher Scientific Inc

Recent Cell Cryopreservation Market Developments

The global Cell Cryopreservation market study presents recent market news and developments including new product launches, mergers, acquisitions, expansions, product approvals, and other updates in the industry.

Cell Cryopreservation Market Report Scope

Parameters: Revenue, Volume Price

Study Period: 2023 (Base Year); 2018- 2023 (Historic Period); 2024- 2030 (Forecast Period)

Currency: USD; (Upon request, can be provided in Euro, JPY, GBP, and other Local Currency)

Qualitative Analysis

Pricing Analysis

Value Chain Analysis

SWOT Profile

Market Dynamics- Trends, Drivers, Challenges

Porter's Five Forces Analysis

Macroeconomic Impact Analysis

Case Scenarios- Low, Base, High

Market Segmentation:

By Product

Cell Cryopreservation Market Size, Trends, Analysis, and Outlook By Product (Cell Freezing Media, Equipment, C...

Cell Freezing Media

- Ethylene Glycol

- Dimethyl Sulfoxide

- Glycerol

- Others

Equipment

- Freezers

- Incubators

- Liquid Nitrogen Supply Tanks

Consumables

- Cryogenic vials

- Cryogenic tubes

- Cooler boxes/containers

- Others

By Application

- Stem Cells

- Oocytes and Embryonic cells

- Sperm Cells

- Hepatocytes

Others

By End-user Channel

Biopharmaceutical & Pharmaceutical Companies

Research Institutes

Biobanks

IVF clinics

Others

Geographical Segmentation:

North America (3 markets)

Europe (6 markets)

Asia Pacific (6 markets)

Latin America (3 markets)

Middle East Africa (5 markets)

Companies

BioLife Solutions Inc

Corning Inc

Creative Biolabs

HiMedia Laboratories

Lonza

Merck KGaA

PromoCell GmbH

Sartorius AG

Thermo Fisher Scientific Inc

Formats Available: Excel, PDF, and PPT

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 - Cryogenic vials
 - Cryogenic tubes
 - Cooler boxes/containers
 - Others
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 - Stem Cells
 - Oocytes and Embryotic cells
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Corning Inc

Creative Biolabs

HiMedia Laboratories

Lonza

Merck KGaA

PromoCell GmbH

Sartorius AG

Thermo Fisher Scientific Inc

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