

Cell and Tissue Preservation Market Size, Trends, Analysis, and Outlook By Preservation Technique (Cryopreservation, Hypothermic Preservation), By Product (Equipment and Consumables, Laboratory Information Management Systems (LIMS), Accessories (vials, containers, labels), By Application (Organ Transplantation:, Regenerative Medicine, Biobanking, Drug Discovery and Development), By End-User (Hospitals and Transplant Centers, Biobanks and Research Institutes, Pharmaceutical and Biotechnology Companies, Cell and Tissue Banks, Others), by Region, Country, Segment, and Companies, 2024-2030

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Abstracts

The global Cell and Tissue Preservation market size is poised to register 10.32% growth from 2024 to 2030, presenting significant growth prospects for companies operating in the industry. The industry study analyzes the global Cell and Tissue Preservation market across By Preservation Technique (Cryopreservation, Hypothermic Preservation), By Product (Equipment and Consumables, Laboratory Information Management Systems (LIMS), Accessories (vials, containers, labels), By Application (Organ Transplantation:, Regenerative Medicine, Biobanking, Drug Discovery and Development), By End-User (Hospitals and Transplant Centers, Biobanks and Research Institutes, Pharmaceutical and Biotechnology Companies, Cell and Tissue Banks, Others).

The Cell and Tissue Preservation Market is experiencing notable growth and technological advancement in 2024 and beyond, driven by innovations in biobanking, cryopreservation techniques, and tissue engineering strategies aimed at preserving cellular viability, tissue integrity, and biological functionality in biological specimens, organ transplants, and regenerative medicine applications that require long-term storage, transport, or clinical use of human cells, tissues, or organs for research, transplantation, or therapeutic purposes in healthcare systems, academic institutions, and biotechnology companies worldwide. Cell and tissue preservation technologies encompass a diverse array of preservation methods, cryogenic storage systems, and tissue banking solutions designed to maintain cellular viability, prevent cellular damage, and prolong shelf life of biological materials, including cells, tissues, blood products, or organ grafts, under controlled environmental conditions, cryogenic temperatures, or cryoprotectant solutions that minimize ice crystal formation, osmotic stress, or ischemic injury during freezing, thawing, or storage processes, ensuring optimal preservation quality, sample integrity, and functional recovery in biobanking facilities, tissue banks, and cell therapy laboratories engaged in research, clinical trials, or medical treatments involving cell-based therapies, tissue engineering products, or organ transplantation procedures. Key trends include the development of novel cryopreservation agents, biostabilization techniques, and preservation protocols that enhance cell viability, tissue viability, and post-thaw recovery rates in cryopreserved specimens, as well as the integration of automated storage systems, robotics platforms, and liquid handling technologies into biorepository workflows to improve sample management, inventory tracking, and sample retrieval processes in large-scale biobanking operations, personalized medicine initiatives, and population-based biorepositories. Additionally, there is a growing emphasis on regulatory compliance, quality assurance, and accreditation standards that govern biobanking practices, tissue banking operations, and cell therapy manufacturing processes to ensure compliance with Good Manufacturing Practices (GMP), Good Tissue Practices (GTP), and international guidelines for tissue preservation, as well as a growing focus on collaborative partnerships, data sharing initiatives, and biobank networks that facilitate sample sharing, resource pooling, and research collaborations among biorepository facilities, academic research centers, and clinical trial networks, fostering innovation, knowledge exchange, and scientific advancement in biomedicine, regenerative medicine, and precision healthcare worldwide.

Cell and Tissue Preservation 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 and Tissue Preservation market research analyses the global market trends, key drivers, challenges, and opportunities in the industry. In addition, the latest Future of Cell and Tissue Preservation 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 and Tissue Preservation industry.

Key market trends defining the global Cell and Tissue Preservation 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 and Tissue Preservation Market Segmentation- Industry Share, Market Size, and Outlook to 2030

The Cell and Tissue Preservation 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 and Tissue Preservation companies scaling up production in these sub-segments with a focus on expanding into emerging countries.

Key strategies adopted by companies within the Cell and Tissue Preservation industry

Leading Cell and Tissue Preservation 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 and Tissue Preservation companies.

Cell and Tissue Preservation Market Study- Strategic Analysis Review

The Cell and Tissue Preservation 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 and Tissue Preservation Market Size Outlook- Historic and Forecast Revenue in Three Cases

The Cell and Tissue Preservation 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 and Tissue Preservation 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 and Tissue Preservation 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 and Tissue Preservation market segments. Similarly, Strong end-user demand is encouraging Canadian Cell and Tissue

Preservation companies to invest in niche segments. Further, as Mexico continues to strengthen its trade relations and invest in technological advancements, the Mexico Cell and Tissue Preservation market is expected to experience significant expansion, offering lucrative opportunities for both domestic and international stakeholders.

Europe Cell and Tissue Preservation 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 and Tissue Preservation 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 and Tissue Preservation 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 and Tissue Preservation 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 and Tissue Preservation in Asia Pacific. In particular, China, India, and South East Asian Cell and Tissue Preservation 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 and Tissue Preservation 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 and Tissue Preservation 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 and Tissue Preservation market potential. Fueled by increasing healthcare expenditure of individuals, growing population, and high prevalence across a few markets drives the demand for Cell and Tissue Preservation.

Cell and Tissue Preservation Market Company Profiles

The global Cell and Tissue Preservation 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 Avantor Inc, BioLife Solutions Inc, Cesca Therapeutics Inc, Chart Industries Inc, Custom Biogenic Systems, GE Healthcare, Merck KGaA, Miltenyi Biotec, Thermo Fisher Scientific Inc, VWR International LLC

Recent Cell and Tissue Preservation Market Developments

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

Cell and Tissue Preservation 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 Preservation Technique

Cryopreservation

-Equipment (freezers, storage systems)

-Consumables (cryopreservation media, cryoprotectants)

Hypothermic Preservation

-Organ preservation solutions

-Cold storage systems

By Product Type

Equipment and Consumables

-Freezers and storage systems

-Cryopreservation media and solutions

-Cryoprotectants

-Hypothermic preservation solutions

-Organ preservation solutions

Laboratory Information Management Systems (LIMS)

Accessories (vials, containers, labels)

By Application

Organ Transplantation:

-Solid organs (heart, kidney, liver, lung, etc.)

-Soft tissues (cornea, skin, bone, etc.)

Regenerative Medicine

-Stem cell preservation

-Tissue engineering

-Cell-based therapies

Biobanking

-Storage of biological samples for research and diagnostics

Drug Discovery and Development

-Preservation of cells and tissues for drug screening and testing

By End User

Hospitals and Transplant Centers

Biobanks and Research Institutes

Pharmaceutical and Biotechnology Companies

Cell and Tissue Banks

Others

Geographical Segmentation:

North America (3 markets)

Europe (6 markets)

Asia Pacific (6 markets)

Latin America (3 markets)

Middle East Africa (5 markets)

Companies

Avantor Inc

BioLife Solutions Inc

Cesca Therapeutics Inc

Chart Industries Inc

Custom Biogenic Systems

GE Healthcare

Merck KGaA

Miltenyi Biotec

Thermo Fisher Scientific Inc

VWR International LLC

Formats Available: Excel, PDF, and PPT

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-Consumables (cryopreservation media, cryoprotectants)

Hypothermic Preservation

-Organ preservation solutions

-Cold storage systems

By Product Type

Equipment and Consumables

-Freezers and storage systems

-Cryopreservation media and solutions

-Cryoprotectants

-Hypothermic preservation solutions

-Organ preservation solutions

Laboratory Information Management Systems (LIMS)

Accessories (vials, containers, labels)

By Application

Organ Transplantation:

-Solid organs (heart, kidney, liver, lung, etc.)

-Soft tissues (cornea, skin, bone, etc.)

Regenerative Medicine

-Stem cell preservation

-Tissue engineering

-Cell-based therapies

Biobanking

-Storage of biological samples for research and diagnostics

Drug Discovery and Development

-Preservation of cells and tissues for drug screening and testing

By End User

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Biobanks and Research Institutes

Pharmaceutical and Biotechnology Companies

Cell and Tissue Banks

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BioLife Solutions Inc

Cesca Therapeutics Inc

Chart Industries Inc

Custom Biogenic Systems

GE Healthcare

Merck KGaA

Miltenyi Biotec

Thermo Fisher Scientific Inc

VWR International LLC

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