

Cell Cryopreservation Equipment Market Size, Share & Trends Analysis Report By Product (Equipment, Consumables/Accessories), By Application (Stem Cells, Reproductive Cells, Bioproduction Cell Lines), By End Use, By Region, And Segment Forecasts, 2025 - 2033

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Abstracts

Summary

The global cell cryopreservation equipment market size was estimated at USD 2.20 billion in 2024 and is projected to reach USD 5.65 billion by 2033, growing at a CAGR of 11.08% from 2025 to 2033. The growing use of regenerative medicine, the expansion of stem cell banking and biobanking operations, and the rise in cell-based research drive the market growth.

Growing Use of Diverse Cryoprotective Agents

The need for accurate and dependable cryopreservation procedures is highlighted by the growing use of different cryoprotective agents, such as DMSO, Cell Banker series, trehalose, glycerol, and propylene glycol, across a variety of biological specimens, including stem cells, embryos, oocytes, hepatocytes, red blood cells, spermatozoa, and dental/soft tissues. The need for sophisticated cryopreservation equipment with precise temperature control, automation, and compatibility with various preservation media continues to grow as labs and biobanks handle increasingly sensitive and diverse samples that require freezing and vitrification conditions.

The need for long-term, high-viability storage of patient-specific biological samples is

also being increased by the growing trend toward personalized and cell-based therapies, which is encouraging investment in cryopreservation infrastructure. To ensure consistent cell survival and adherence to evolving standards, end users are increasingly implementing next-generation cryopreservation equipment with enhanced monitoring, automation, and data-logging capabilities, as regulatory bodies emphasize the importance of quality assurance, sample traceability, and standardized preservation protocols.

Rising use of cell-based therapies & regenerative medicine

The accelerating adoption of stem cell therapy, cell-based treatments, and regenerative medicine is a major driver of demand for cell cryopreservation equipment. Since therapeutic cells must remain viable and genetically stable throughout extraction, transport, processing, and clinical administration, cryopreservation is essential for long-term storage without compromising cell integrity. As the pipeline of cellular therapeutics expands, cryopreservation has become a critical step in therapy development, quality control, and delivery.

Growing numbers of clinical trials and commercial-stage cell therapies are prompting research institutions, biobanks, CDMOs, and pharmaceutical companies to scale their cryopreservation capacity. Controlled-rate freezers, ultra-low-temperature systems, smart inventory solutions, and liquid nitrogen-based platforms are therefore central to industrial bioprocessing and global distribution of advanced cell therapies.

Global Cell Cryopreservation Equipment Market Report Segmentation

This report forecasts revenue growth and provides an analysis on the latest trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the global cell cryopreservation equipment market report based on product, application, end use, and region:

Product Outlook (Revenue, USD Million, 2021 - 2033)

Equipment

Freezers

Liquid Nitrogen Supply Tanks

Incubators

Consumables/Accessories

Cryogenic vials

Cryogenic tubes

Cooler boxes/containers

Others

Application Outlook (Revenue, USD Million, 2021 - 2033)

Stem Cells

Reproductive Cells

Bioproduction Cell Lines

Primary Cells

Others

End Use Outlook (Revenue, USD Million, 2021 - 2033)

Biopharmaceutical & Pharmaceutical Companies

Academic and Research Institutes

Biobanks

IVF clinics

Others

Regional Outlook (Revenue, USD Million, 2021 - 2033)

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Italy

Spain

Denmark

Sweden

Norway

Asia Pacific

Japan

China

India

Australia

Thailand

South Korea

Latin America

Brazil

Argentina

Middle East and Africa (MEA)

South Africa

Saudi Arabia

UAE

Kuwait

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