

Global Low-Temperature Cryopreservation Bag Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Low-Temperature Cryopreservation Bag market size was valued at US\$ 167 million in 2025 and is forecast to a readjusted size of US\$ 283 million by 2032 with a CAGR of 7.8% during review period.

Low-temperature cryopreservation bags are sterile single-use flexible containers made from EVA/polyolefin, FEP, or multilayer bioprocess films, usually configured with tubing, luer ports, label pockets, and secondary overwrap bags. They are used to freeze, store, transport, and thaw cells, blood components, tissues, and biopharmaceutical bulk fluids in ultra-low freezers or liquid nitrogen environments. Product value is driven by low-temperature flexibility, seal integrity, low extractables, sterility assurance, lot traceability, and validation documentation, with an estimated gross margin of about 48%.

Demand is mainly driven by commercial cell and gene therapy, stem cell and cord blood banking, hospital blood centers, tissue banking, and frozen storage of biopharmaceutical bulk fluids. As high-value cell products and biological samples require closed, sterile, and traceable processing, cryopreservation bags are shifting from general containers to critical process consumables, with customers focusing on post-thaw recovery, bag breakage risk, tubing compatibility, and completeness of validation files.

Product development is moving toward more robust EVA/polyolefin, FEP, and multilayer film systems, combined with sterile-weldable tubing, multi-compartment formats, protective overwraps, extractables testing, and compatibility with automated freezing systems. International suppliers retain advantages in clinical validation, regulatory

documentation, and blood-center customer bases, while Chinese suppliers are gaining entry through local delivery, customized tubing assemblies, and cost-effective support for cell therapy scale-up.

Regional opportunities are concentrated in North America, Europe, and Asia-Pacific clusters with strong cell therapy manufacturing activity. Key risks include low-temperature brittleness, port leakage, material extractables, DMSO compatibility, and insufficient regulatory documentation; suppliers with stable film sourcing, complete validation packages, scalable cleanroom manufacturing, and equipment-integration capability are better positioned to enter GMP customer supply chains.

This report is a detailed and comprehensive analysis for global Low-Temperature Cryopreservation Bag market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Low-Temperature Cryopreservation Bag market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Low-Temperature Cryopreservation Bag market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Low-Temperature Cryopreservation Bag market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Low-Temperature Cryopreservation Bag market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Low-Temperature Cryopreservation Bag

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Low-Temperature Cryopreservation Bag market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include OriGen Biomedical, Miltenyi Biotec, Charter Medical, Macopharma, Saint-Gobain Life Sciences, Corning, ThermoGenesis, LePure Biotech, BioLink, Tofflon Life Science, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Low-Temperature Cryopreservation Bag market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Blood Component Bags

Cellular Product Bags

Tissue Storage Bags

Biologics Freeze-Thaw Bags

Other Biologic Sample Bags

Market segment by Film Material

EVA and Polyolefin Bags

FEP Bags

Multi-Layer Bioprocess Film Bags

Proprietary Polymer Blend Bags

Other Material Bags

Market segment by Storage Environment

Liquid Nitrogen Grade Bags

Vapor-Phase Cryogenic Bags

Ultra-Low Freezer Grade Bags

Frozen Shipping Grade Bags

Other Temperature Grade Bags

Market segment by Bag Configuration

Single-Compartment Bags

Dual-Compartment Bags

Multi-Compartment Bags

Conical or Small-Volume Bags

Secondary Overwrap Bags

Custom Configuration Bags

Market segment by Application

Cell and Gene Therapy Manufacturing

Stem Cell Banking and Transplantation

Blood Component Cryostorage

Tissue Banking and Regenerative Medicine

Biopharmaceutical Bulk Storage

Research Biobanking and Sample Storage

Major players covered

OriGen Biomedical

Miltenyi Biotec

Charter Medical

Macopharma

Saint-Gobain Life Sciences

Corning

ThermoGenesis

LePure Biotech

BioLink

Tofflon Life Science

Antech Scientific

CellBios

WinTop Biotech

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Low-Temperature Cryopreservation Bag product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Low-Temperature Cryopreservation Bag, with price, sales quantity, revenue, and global market share of Low-Temperature Cryopreservation Bag from 2021 to 2026.

Chapter 3, the Low-Temperature Cryopreservation Bag competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Low-Temperature Cryopreservation Bag breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market

share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Low-Temperature Cryopreservation Bag market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Low-Temperature Cryopreservation Bag.

Chapter 14 and 15, to describe Low-Temperature Cryopreservation Bag sales channel, distributors, customers, research findings and conclusion.

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