

Global Low-Temperature Cryopreservation Bag Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Low-Temperature Cryopreservation Bag market size is expected to reach \$ 283 million by 2032, rising at a market growth of 7.8% CAGR during the forecast period (2026-2032).

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 studies the global Low-Temperature Cryopreservation Bag production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Low-Temperature Cryopreservation Bag and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Low-Temperature Cryopreservation Bag that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Low-Temperature Cryopreservation Bag total production and demand, 2021-2032, (Units)

Global Low-Temperature Cryopreservation Bag total production value, 2021-2032, (USD Million)

Global Low-Temperature Cryopreservation Bag production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Low-Temperature Cryopreservation Bag consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Low-Temperature Cryopreservation Bag domestic production, consumption, key domestic manufacturers and share

Global Low-Temperature Cryopreservation Bag production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Low-Temperature Cryopreservation Bag production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Low-Temperature Cryopreservation Bag production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Low-Temperature Cryopreservation Bag market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Low-Temperature Cryopreservation Bag market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Low-Temperature Cryopreservation Bag Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Low-Temperature Cryopreservation Bag Market, Segmentation by Type:

- Blood Component Bags
- Cellular Product Bags
- Tissue Storage Bags
- Biologics Freeze-Thaw Bags
- Other Biologic Sample Bags

Global Low-Temperature Cryopreservation Bag Market, Segmentation by Film Material:

- EVA and Polyolefin Bags
- FEP Bags
- Multi-Layer Bioprocess Film Bags
- Proprietary Polymer Blend Bags
- Other Material Bags

Global Low-Temperature Cryopreservation Bag Market, Segmentation by Storage Environment:

- Liquid Nitrogen Grade Bags
- Vapor-Phase Cryogenic Bags
- Ultra-Low Freezer Grade Bags
- Frozen Shipping Grade Bags
- Other Temperature Grade Bags

Global Low-Temperature Cryopreservation Bag Market, Segmentation by Bag Configuration:

Single-Compartment Bags

Dual-Compartment Bags

Multi-Compartment Bags

Conical or Small-Volume Bags

Secondary Overwrap Bags

Custom Configuration Bags

Global Low-Temperature Cryopreservation Bag Market, Segmentation 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

Companies Profiled:

OriGen Biomedical

Miltenyi Biotec

Charter Medical

Macopharma

Saint-Gobain Life Sciences

Corning

ThermoGenesis

LePure Biotech

BioLink

Tofflon Life Science

Antech Scientific

CellBios

WinTop Biotech

Key Questions Answered:

1. How big is the global Low-Temperature Cryopreservation Bag market?
2. What is the demand of the global Low-Temperature Cryopreservation Bag market?
3. What is the year over year growth of the global Low-Temperature Cryopreservation Bag market?
4. What is the production and production value of the global Low-Temperature Cryopreservation Bag market?
5. Who are the key producers in the global Low-Temperature Cryopreservation Bag market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Low-Temperature Cryopreservation Bag Introduction
- 1.2 World Low-Temperature Cryopreservation Bag Supply & Forecast
 - 1.2.1 World Low-Temperature Cryopreservation Bag Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Low-Temperature Cryopreservation Bag Production (2021-2032)
 - 1.2.3 World Low-Temperature Cryopreservation Bag Pricing Trends (2021-2032)
- 1.3 World Low-Temperature Cryopreservation Bag Production by Region (Based on Production Site)
 - 1.3.1 World Low-Temperature Cryopreservation Bag Production Value by Region (2021-2032)
 - 1.3.2 World Low-Temperature Cryopreservation Bag Production by Region (2021-2032)
 - 1.3.3 World Low-Temperature Cryopreservation Bag Average Price by Region (2021-2032)
 - 1.3.4 North America Low-Temperature Cryopreservation Bag Production (2021-2032)
 - 1.3.5 Europe Low-Temperature Cryopreservation Bag Production (2021-2032)
 - 1.3.6 China Low-Temperature Cryopreservation Bag Production (2021-2032)
 - 1.3.7 Japan Low-Temperature Cryopreservation Bag Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Low-Temperature Cryopreservation Bag Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Low-Temperature Cryopreservation Bag Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Low-Temperature Cryopreservation Bag Demand (2021-2032)
- 2.2 World Low-Temperature Cryopreservation Bag Consumption by Region
 - 2.2.1 World Low-Temperature Cryopreservation Bag Consumption by Region (2021-2026)
 - 2.2.2 World Low-Temperature Cryopreservation Bag Consumption Forecast by Region (2027-2032)
- 2.3 United States Low-Temperature Cryopreservation Bag Consumption (2021-2032)
- 2.4 China Low-Temperature Cryopreservation Bag Consumption (2021-2032)
- 2.5 Europe Low-Temperature Cryopreservation Bag Consumption (2021-2032)
- 2.6 Japan Low-Temperature Cryopreservation Bag Consumption (2021-2032)

- 2.7 South Korea Low-Temperature Cryopreservation Bag Consumption (2021-2032)
- 2.8 ASEAN Low-Temperature Cryopreservation Bag Consumption (2021-2032)
- 2.9 India Low-Temperature Cryopreservation Bag Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Low-Temperature Cryopreservation Bag Production Value by Manufacturer (2021-2026)
- 3.2 World Low-Temperature Cryopreservation Bag Production by Manufacturer (2021-2026)
- 3.3 World Low-Temperature Cryopreservation Bag Average Price by Manufacturer (2021-2026)
- 3.4 Low-Temperature Cryopreservation Bag Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Low-Temperature Cryopreservation Bag Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Low-Temperature Cryopreservation Bag in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Low-Temperature Cryopreservation Bag in 2025
- 3.6 Low-Temperature Cryopreservation Bag Market: Overall Company Footprint Analysis
 - 3.6.1 Low-Temperature Cryopreservation Bag Market: Region Footprint
 - 3.6.2 Low-Temperature Cryopreservation Bag Market: Company Product Type Footprint
 - 3.6.3 Low-Temperature Cryopreservation Bag Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Low-Temperature Cryopreservation Bag Production Value Comparison
 - 4.1.1 United States VS China: Low-Temperature Cryopreservation Bag Production

Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Low-Temperature Cryopreservation Bag Production

Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Low-Temperature Cryopreservation Bag Production Comparison

4.2.1 United States VS China: Low-Temperature Cryopreservation Bag Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Low-Temperature Cryopreservation Bag Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Low-Temperature Cryopreservation Bag Consumption Comparison

4.3.1 United States VS China: Low-Temperature Cryopreservation Bag Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Low-Temperature Cryopreservation Bag Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Low-Temperature Cryopreservation Bag Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Low-Temperature Cryopreservation Bag Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Low-Temperature Cryopreservation Bag Production Value (2021-2026)

4.4.3 United States Based Manufacturers Low-Temperature Cryopreservation Bag Production (2021-2026)

4.5 China Based Low-Temperature Cryopreservation Bag Manufacturers and Market Share

4.5.1 China Based Low-Temperature Cryopreservation Bag Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Low-Temperature Cryopreservation Bag Production Value (2021-2026)

4.5.3 China Based Manufacturers Low-Temperature Cryopreservation Bag Production (2021-2026)

4.6 Rest of World Based Low-Temperature Cryopreservation Bag Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Low-Temperature Cryopreservation Bag Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Low-Temperature Cryopreservation Bag Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Low-Temperature Cryopreservation Bag Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Low-Temperature Cryopreservation Bag Market Size Overview by Type:
2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Blood Component Bags

5.2.2 Cellular Product Bags

5.2.3 Tissue Storage Bags

5.2.4 Biologics Freeze-Thaw Bags

5.2.5 Other Biologic Sample Bags

5.3 Market Segment by Type

5.3.1 World Low-Temperature Cryopreservation Bag Production by Type (2021-2032)

5.3.2 World Low-Temperature Cryopreservation Bag Production Value by Type
(2021-2032)

5.3.3 World Low-Temperature Cryopreservation Bag Average Price by Type
(2021-2032)

6 MARKET ANALYSIS BY FILM MATERIAL

6.1 World Low-Temperature Cryopreservation Bag Market Size Overview by Film
Material: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Film Material

6.2.1 EVA and Polyolefin Bags

6.2.2 FEP Bags

6.2.3 Multi-Layer Bioprocess Film Bags

6.2.4 Proprietary Polymer Blend Bags

6.2.5 Other Material Bags

6.3 Market Segment by Film Material

6.3.1 World Low-Temperature Cryopreservation Bag Production by Film Material
(2021-2032)

6.3.2 World Low-Temperature Cryopreservation Bag Production Value by Film
Material (2021-2032)

6.3.3 World Low-Temperature Cryopreservation Bag Average Price by Film Material
(2021-2032)

7 MARKET ANALYSIS BY STORAGE ENVIRONMENT

7.1 World Low-Temperature Cryopreservation Bag Market Size Overview by Storage

Environment: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Storage Environment

7.2.1 Liquid Nitrogen Grade Bags

7.2.2 Vapor-Phase Cryogenic Bags

7.2.3 Ultra-Low Freezer Grade Bags

7.2.4 Frozen Shipping Grade Bags

7.2.5 Other Temperature Grade Bags

7.3 Market Segment by Storage Environment

7.3.1 World Low-Temperature Cryopreservation Bag Production by Storage Environment (2021-2032)

7.3.2 World Low-Temperature Cryopreservation Bag Production Value by Storage Environment (2021-2032)

7.3.3 World Low-Temperature Cryopreservation Bag Average Price by Storage Environment (2021-2032)

8 MARKET ANALYSIS BY BAG CONFIGURATION

8.1 World Low-Temperature Cryopreservation Bag Market Size Overview by Bag Configuration: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Bag Configuration

8.2.1 Single-Compartment Bags

8.2.2 Dual-Compartment Bags

8.2.3 Multi-Compartment Bags

8.2.4 Conical or Small-Volume Bags

8.2.5 Secondary Overwrap Bags

8.2.6 Custom Configuration Bags

8.3 Market Segment by Bag Configuration

8.3.1 World Low-Temperature Cryopreservation Bag Production by Bag Configuration (2021-2032)

8.3.2 World Low-Temperature Cryopreservation Bag Production Value by Bag Configuration (2021-2032)

8.3.3 World Low-Temperature Cryopreservation Bag Average Price by Bag Configuration (2021-2032)

9 MARKET ANALYSIS BY APPLICATION

9.1 World Low-Temperature Cryopreservation Bag Market Size Overview by Application: 2021 VS 2025 VS 2032

9.2 Segment Introduction by Application

- 9.2.1 Cell and Gene Therapy Manufacturing
- 9.2.2 Stem Cell Banking and Transplantation
- 9.2.3 Blood Component Cryostorage
- 9.2.4 Tissue Banking and Regenerative Medicine
- 9.2.5 Biopharmaceutical Bulk Storage
- 9.2.6 Research Biobanking and Sample Storage
- 9.3 Market Segment by Application
 - 9.3.1 World Low-Temperature Cryopreservation Bag Production by Application (2021-2032)
 - 9.3.2 World Low-Temperature Cryopreservation Bag Production Value by Application (2021-2032)
 - 9.3.3 World Low-Temperature Cryopreservation Bag Average Price by Application (2021-2032)

10 COMPANY PROFILES

10.1 OriGen Biomedical

- 10.1.1 OriGen Biomedical Details
- 10.1.2 OriGen Biomedical Major Business
- 10.1.3 OriGen Biomedical Low-Temperature Cryopreservation Bag Product and Services
- 10.1.4 OriGen Biomedical Low-Temperature Cryopreservation Bag Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.1.5 OriGen Biomedical Recent Developments/Updates
- 10.1.6 OriGen Biomedical Competitive Strengths & Weaknesses

10.2 Miltenyi Biotec

- 10.2.1 Miltenyi Biotec Details
- 10.2.2 Miltenyi Biotec Major Business
- 10.2.3 Miltenyi Biotec Low-Temperature Cryopreservation Bag Product and Services
- 10.2.4 Miltenyi Biotec Low-Temperature Cryopreservation Bag Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.2.5 Miltenyi Biotec Recent Developments/Updates
- 10.2.6 Miltenyi Biotec Competitive Strengths & Weaknesses

10.3 Charter Medical

- 10.3.1 Charter Medical Details
- 10.3.2 Charter Medical Major Business
- 10.3.3 Charter Medical Low-Temperature Cryopreservation Bag Product and Services
- 10.3.4 Charter Medical Low-Temperature Cryopreservation Bag Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 10.3.5 Charter Medical Recent Developments/Updates
- 10.3.6 Charter Medical Competitive Strengths & Weaknesses
- 10.4 Macopharma
 - 10.4.1 Macopharma Details
 - 10.4.2 Macopharma Major Business
 - 10.4.3 Macopharma Low-Temperature Cryopreservation Bag Product and Services
 - 10.4.4 Macopharma Low-Temperature Cryopreservation Bag Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.4.5 Macopharma Recent Developments/Updates
 - 10.4.6 Macopharma Competitive Strengths & Weaknesses
- 10.5 Saint-Gobain Life Sciences
 - 10.5.1 Saint-Gobain Life Sciences Details
 - 10.5.2 Saint-Gobain Life Sciences Major Business
 - 10.5.3 Saint-Gobain Life Sciences Low-Temperature Cryopreservation Bag Product and Services
 - 10.5.4 Saint-Gobain Life Sciences Low-Temperature Cryopreservation Bag Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.5.5 Saint-Gobain Life Sciences Recent Developments/Updates
 - 10.5.6 Saint-Gobain Life Sciences Competitive Strengths & Weaknesses
- 10.6 Corning
 - 10.6.1 Corning Details
 - 10.6.2 Corning Major Business
 - 10.6.3 Corning Low-Temperature Cryopreservation Bag Product and Services
 - 10.6.4 Corning Low-Temperature Cryopreservation Bag Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.6.5 Corning Recent Developments/Updates
 - 10.6.6 Corning Competitive Strengths & Weaknesses
- 10.7 ThermoGenesis
 - 10.7.1 ThermoGenesis Details
 - 10.7.2 ThermoGenesis Major Business
 - 10.7.3 ThermoGenesis Low-Temperature Cryopreservation Bag Product and Services
 - 10.7.4 ThermoGenesis Low-Temperature Cryopreservation Bag Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.7.5 ThermoGenesis Recent Developments/Updates
 - 10.7.6 ThermoGenesis Competitive Strengths & Weaknesses
- 10.8 LePure Biotech
 - 10.8.1 LePure Biotech Details
 - 10.8.2 LePure Biotech Major Business
 - 10.8.3 LePure Biotech Low-Temperature Cryopreservation Bag Product and Services

10.8.4 LePure Biotech Low-Temperature Cryopreservation Bag Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.8.5 LePure Biotech Recent Developments/Updates

10.8.6 LePure Biotech Competitive Strengths & Weaknesses

10.9 BioLink

10.9.1 BioLink Details

10.9.2 BioLink Major Business

10.9.3 BioLink Low-Temperature Cryopreservation Bag Product and Services

10.9.4 BioLink Low-Temperature Cryopreservation Bag Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.9.5 BioLink Recent Developments/Updates

10.9.6 BioLink Competitive Strengths & Weaknesses

10.10 Tofflon Life Science

10.10.1 Tofflon Life Science Details

10.10.2 Tofflon Life Science Major Business

10.10.3 Tofflon Life Science Low-Temperature Cryopreservation Bag Product and Services

10.10.4 Tofflon Life Science Low-Temperature Cryopreservation Bag Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.10.5 Tofflon Life Science Recent Developments/Updates

10.10.6 Tofflon Life Science Competitive Strengths & Weaknesses

10.11 Antech Scientific

10.11.1 Antech Scientific Details

10.11.2 Antech Scientific Major Business

10.11.3 Antech Scientific Low-Temperature Cryopreservation Bag Product and Services

10.11.4 Antech Scientific Low-Temperature Cryopreservation Bag Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.11.5 Antech Scientific Recent Developments/Updates

10.11.6 Antech Scientific Competitive Strengths & Weaknesses

10.12 CellBios

10.12.1 CellBios Details

10.12.2 CellBios Major Business

10.12.3 CellBios Low-Temperature Cryopreservation Bag Product and Services

10.12.4 CellBios Low-Temperature Cryopreservation Bag Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.12.5 CellBios Recent Developments/Updates

10.12.6 CellBios Competitive Strengths & Weaknesses

10.13 WinTop Biotech

- 10.13.1 WinTop Biotech Details
- 10.13.2 WinTop Biotech Major Business
- 10.13.3 WinTop Biotech Low-Temperature Cryopreservation Bag Product and Services
- 10.13.4 WinTop Biotech Low-Temperature Cryopreservation Bag Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.13.5 WinTop Biotech Recent Developments/Updates
- 10.13.6 WinTop Biotech Competitive Strengths & Weaknesses

11 INDUSTRY CHAIN ANALYSIS

- 11.1 Low-Temperature Cryopreservation Bag Industry Chain
- 11.2 Low-Temperature Cryopreservation Bag Upstream Analysis
 - 11.2.1 Low-Temperature Cryopreservation Bag Core Raw Materials
 - 11.2.2 Main Manufacturers of Low-Temperature Cryopreservation Bag Core Raw Materials
- 11.3 Midstream Analysis
- 11.4 Downstream Analysis
- 11.5 Low-Temperature Cryopreservation Bag Production Mode
- 11.6 Low-Temperature Cryopreservation Bag Procurement Model
- 11.7 Low-Temperature Cryopreservation Bag Industry Sales Model and Sales Channels
 - 11.7.1 Low-Temperature Cryopreservation Bag Sales Model
 - 11.7.2 Low-Temperature Cryopreservation Bag Typical Distributors

12 RESEARCH FINDINGS AND CONCLUSION

13 APPENDIX

- 13.1 Methodology
- 13.2 Research Process and Data Source
- 13.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Low-Temperature Cryopreservation Bag Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Low-Temperature Cryopreservation Bag Production Value by Region (2021-2026) & (USD Million)

Table 3. World Low-Temperature Cryopreservation Bag Production Value by Region (2027-2032) & (USD Million)

Table 4. World Low-Temperature Cryopreservation Bag Production Value Market Share by Region (2021-2026)

Table 5. World Low-Temperature Cryopreservation Bag Production Value Market Share by Region (2027-2032)

Table 6. World Low-Temperature Cryopreservation Bag Production by Region (2021-2026) & (Units)

Table 7. World Low-Temperature Cryopreservation Bag Production by Region (2027-2032) & (Units)

Table 8. World Low-Temperature Cryopreservation Bag Production Market Share by Region (2021-2026)

Table 9. World Low-Temperature Cryopreservation Bag Production Market Share by Region (2027-2032)

Table 10. World Low-Temperature Cryopreservation Bag Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Low-Temperature Cryopreservation Bag Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Low-Temperature Cryopreservation Bag Major Market Trends

Table 13. World Low-Temperature Cryopreservation Bag Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Low-Temperature Cryopreservation Bag Consumption by Region (2021-2026) & (Units)

Table 15. World Low-Temperature Cryopreservation Bag Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Low-Temperature Cryopreservation Bag Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Low-Temperature Cryopreservation Bag Producers in 2025

Table 18. World Low-Temperature Cryopreservation Bag Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Low-Temperature Cryopreservation Bag Producers in 2025

Table 20. World Low-Temperature Cryopreservation Bag Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Low-Temperature Cryopreservation Bag Company Evaluation Quadrant

Table 22. World Low-Temperature Cryopreservation Bag Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Low-Temperature Cryopreservation Bag Production Site of Key Manufacturer

Table 24. Low-Temperature Cryopreservation Bag Market: Company Product Type Footprint

Table 25. Low-Temperature Cryopreservation Bag Market: Company Product Application Footprint

Table 26. Low-Temperature Cryopreservation Bag Competitive Factors

Table 27. Low-Temperature Cryopreservation Bag New Entrant and Capacity Expansion Plans

Table 28. Low-Temperature Cryopreservation Bag Mergers & Acquisitions Activity

Table 29. United States VS China Low-Temperature Cryopreservation Bag Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Low-Temperature Cryopreservation Bag Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Low-Temperature Cryopreservation Bag Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based Low-Temperature Cryopreservation Bag Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Low-Temperature Cryopreservation Bag Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Low-Temperature Cryopreservation Bag Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Low-Temperature Cryopreservation Bag Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Low-Temperature Cryopreservation Bag Production Market Share (2021-2026)

Table 37. China Based Low-Temperature Cryopreservation Bag Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Low-Temperature Cryopreservation Bag Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Low-Temperature Cryopreservation Bag

Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Low-Temperature Cryopreservation Bag Production, (2021-2026) & (Units)

Table 41. China Based Manufacturers Low-Temperature Cryopreservation Bag Production Market Share (2021-2026)

Table 42. Rest of World Based Low-Temperature Cryopreservation Bag Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Low-Temperature Cryopreservation Bag Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Low-Temperature Cryopreservation Bag Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Low-Temperature Cryopreservation Bag Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Low-Temperature Cryopreservation Bag Production Market Share (2021-2026)

Table 47. World Low-Temperature Cryopreservation Bag Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Low-Temperature Cryopreservation Bag Production by Type (2021-2026) & (Units)

Table 49. World Low-Temperature Cryopreservation Bag Production by Type (2027-2032) & (Units)

Table 50. World Low-Temperature Cryopreservation Bag Production Value by Type (2021-2026) & (USD Million)

Table 51. World Low-Temperature Cryopreservation Bag Production Value by Type (2027-2032) & (USD Million)

Table 52. World Low-Temperature Cryopreservation Bag Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Low-Temperature Cryopreservation Bag Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Low-Temperature Cryopreservation Bag Production Value by Film Material, (USD Million), 2021 & 2025 & 2032

Table 55. World Low-Temperature Cryopreservation Bag Production by Film Material (2021-2026) & (Units)

Table 56. World Low-Temperature Cryopreservation Bag Production by Film Material (2027-2032) & (Units)

Table 57. World Low-Temperature Cryopreservation Bag Production Value by Film Material (2021-2026) & (USD Million)

Table 58. World Low-Temperature Cryopreservation Bag Production Value by Film Material (2027-2032) & (USD Million)

Table 59. World Low-Temperature Cryopreservation Bag Average Price by Film Material (2021-2026) & (US\$/Unit)

Table 60. World Low-Temperature Cryopreservation Bag Average Price by Film Material (2027-2032) & (US\$/Unit)

Table 61. World Low-Temperature Cryopreservation Bag Production Value by Storage Environment, (USD Million), 2021 & 2025 & 2032

Table 62. World Low-Temperature Cryopreservation Bag Production by Storage Environment (2021-2026) & (Units)

Table 63. World Low-Temperature Cryopreservation Bag Production by Storage Environment (2027-2032) & (Units)

Table 64. World Low-Temperature Cryopreservation Bag Production Value by Storage Environment (2021-2026) & (USD Million)

Table 65. World Low-Temperature Cryopreservation Bag Production Value by Storage Environment (2027-2032) & (USD Million)

Table 66. World Low-Temperature Cryopreservation Bag Average Price by Storage Environment (2021-2026) & (US\$/Unit)

Table 67. World Low-Temperature Cryopreservation Bag Average Price by Storage Environment (2027-2032) & (US\$/Unit)

Table 68. World Low-Temperature Cryopreservation Bag Production Value by Bag Configuration, (USD Million), 2021 & 2025 & 2032

Table 69. World Low-Temperature Cryopreservation Bag Production by Bag Configuration (2021-2026) & (Units)

Table 70. World Low-Temperature Cryopreservation Bag Production by Bag Configuration (2027-2032) & (Units)

Table 71. World Low-Temperature Cryopreservation Bag Production Value by Bag Configuration (2021-2026) & (USD Million)

Table 72. World Low-Temperature Cryopreservation Bag Production Value by Bag Configuration (2027-2032) & (USD Million)

Table 73. World Low-Temperature Cryopreservation Bag Average Price by Bag Configuration (2021-2026) & (US\$/Unit)

Table 74. World Low-Temperature Cryopreservation Bag Average Price by Bag Configuration (2027-2032) & (US\$/Unit)

Table 75. World Low-Temperature Cryopreservation Bag Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 76. World Low-Temperature Cryopreservation Bag Production by Application (2021-2026) & (Units)

Table 77. World Low-Temperature Cryopreservation Bag Production by Application (2027-2032) & (Units)

Table 78. World Low-Temperature Cryopreservation Bag Production Value by

Application (2021-2026) & (USD Million)

Table 79. World Low-Temperature Cryopreservation Bag Production Value by Application (2027-2032) & (USD Million)

Table 80. World Low-Temperature Cryopreservation Bag Average Price by Application (2021-2026) & (US\$/Unit)

Table 81. World Low-Temperature Cryopreservation Bag Average Price by Application (2027-2032) & (US\$/Unit)

Table 82. OriGen Biomedical Basic Information, Manufacturing Base and Competitors

Table 83. OriGen Biomedical Major Business

Table 84. OriGen Biomedical Low-Temperature Cryopreservation Bag Product and Services

Table 85. OriGen Biomedical Low-Temperature Cryopreservation Bag Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 86. OriGen Biomedical Recent Developments/Updates

Table 87. OriGen Biomedical Competitive Strengths & Weaknesses

Table 88. Miltenyi Biotec Basic Information, Manufacturing Base and Competitors

Table 89. Miltenyi Biotec Major Business

Table 90. Miltenyi Biotec Low-Temperature Cryopreservation Bag Product and Services

Table 91. Miltenyi Biotec Low-Temperature Cryopreservation Bag Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 92. Miltenyi Biotec Recent Developments/Updates

Table 93. Miltenyi Biotec Competitive Strengths & Weaknesses

Table 94. Charter Medical Basic Information, Manufacturing Base and Competitors

Table 95. Charter Medical Major Business

Table 96. Charter Medical Low-Temperature Cryopreservation Bag Product and Services

Table 97. Charter Medical Low-Temperature Cryopreservation Bag Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 98. Charter Medical Recent Developments/Updates

Table 99. Charter Medical Competitive Strengths & Weaknesses

Table 100. Macopharma Basic Information, Manufacturing Base and Competitors

Table 101. Macopharma Major Business

Table 102. Macopharma Low-Temperature Cryopreservation Bag Product and Services

Table 103. Macopharma Low-Temperature Cryopreservation Bag Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 104. Macopharma Recent Developments/Updates
Table 105. Macopharma Competitive Strengths & Weaknesses
Table 106. Saint-Gobain Life Sciences Basic Information, Manufacturing Base and Competitors
Table 107. Saint-Gobain Life Sciences Major Business
Table 108. Saint-Gobain Life Sciences Low-Temperature Cryopreservation Bag Product and Services
Table 109. Saint-Gobain Life Sciences Low-Temperature Cryopreservation Bag Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 110. Saint-Gobain Life Sciences Recent Developments/Updates
Table 111. Saint-Gobain Life Sciences Competitive Strengths & Weaknesses
Table 112. Corning Basic Information, Manufacturing Base and Competitors
Table 113. Corning Major Business
Table 114. Corning Low-Temperature Cryopreservation Bag Product and Services
Table 115. Corning Low-Temperature Cryopreservation Bag Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 116. Corning Recent Developments/Updates
Table 117. Corning Competitive Strengths & Weaknesses
Table 118. ThermoGenesis Basic Information, Manufacturing Base and Competitors
Table 119. ThermoGenesis Major Business
Table 120. ThermoGenesis Low-Temperature Cryopreservation Bag Product and Services
Table 121. ThermoGenesis Low-Temperature Cryopreservation Bag Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 122. ThermoGenesis Recent Developments/Updates
Table 123. ThermoGenesis Competitive Strengths & Weaknesses
Table 124. LePure Biotech Basic Information, Manufacturing Base and Competitors
Table 125. LePure Biotech Major Business
Table 126. LePure Biotech Low-Temperature Cryopreservation Bag Product and Services
Table 127. LePure Biotech Low-Temperature Cryopreservation Bag Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 128. LePure Biotech Recent Developments/Updates
Table 129. LePure Biotech Competitive Strengths & Weaknesses
Table 130. BioLink Basic Information, Manufacturing Base and Competitors

Table 131. BioLink Major Business

Table 132. BioLink Low-Temperature Cryopreservation Bag Product and Services

Table 133. BioLink Low-Temperature Cryopreservation Bag Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 134. BioLink Recent Developments/Updates

Table 135. BioLink Competitive Strengths & Weaknesses

Table 136. Tofflon Life Science Basic Information, Manufacturing Base and Competitors

Table 137. Tofflon Life Science Major Business

Table 138. Tofflon Life Science Low-Temperature Cryopreservation Bag Product and Services

Table 139. Tofflon Life Science Low-Temperature Cryopreservation Bag Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 140. Tofflon Life Science Recent Developments/Updates

Table 141. Tofflon Life Science Competitive Strengths & Weaknesses

Table 142. Antech Scientific Basic Information, Manufacturing Base and Competitors

Table 143. Antech Scientific Major Business

Table 144. Antech Scientific Low-Temperature Cryopreservation Bag Product and Services

Table 145. Antech Scientific Low-Temperature Cryopreservation Bag Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 146. Antech Scientific Recent Developments/Updates

Table 147. Antech Scientific Competitive Strengths & Weaknesses

Table 148. CellBios Basic Information, Manufacturing Base and Competitors

Table 149. CellBios Major Business

Table 150. CellBios Low-Temperature Cryopreservation Bag Product and Services

Table 151. CellBios Low-Temperature Cryopreservation Bag Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 152. CellBios Recent Developments/Updates

Table 153. CellBios Competitive Strengths & Weaknesses

Table 154. WinTop Biotech Basic Information, Manufacturing Base and Competitors

Table 155. WinTop Biotech Major Business

Table 156. WinTop Biotech Low-Temperature Cryopreservation Bag Product and Services

Table 157. WinTop Biotech Low-Temperature Cryopreservation Bag Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 158. WinTop Biotech Recent Developments/Updates

Table 159. WinTop Biotech Competitive Strengths & Weaknesses

Table 160. Global Key Players of Low-Temperature Cryopreservation Bag Upstream
(Raw Materials)

Table 161. Global Low-Temperature Cryopreservation Bag Typical Customers

Table 162. Low-Temperature Cryopreservation Bag Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Low-Temperature Cryopreservation Bag Picture

Figure 2. World Low-Temperature Cryopreservation Bag Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Low-Temperature Cryopreservation Bag Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Low-Temperature Cryopreservation Bag Production (2021-2032) & (Units)

Figure 5. World Low-Temperature Cryopreservation Bag Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Low-Temperature Cryopreservation Bag Production Value Market Share by Region (2021-2032)

Figure 7. World Low-Temperature Cryopreservation Bag Production Market Share by Region (2021-2032)

Figure 8. North America Low-Temperature Cryopreservation Bag Production (2021-2032) & (Units)

Figure 9. Europe Low-Temperature Cryopreservation Bag Production (2021-2032) & (Units)

Figure 10. China Low-Temperature Cryopreservation Bag Production (2021-2032) & (Units)

Figure 11. Japan Low-Temperature Cryopreservation Bag Production (2021-2032) & (Units)

Figure 12. Low-Temperature Cryopreservation Bag Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Low-Temperature Cryopreservation Bag Consumption (2021-2032) & (Units)

Figure 15. World Low-Temperature Cryopreservation Bag Consumption Market Share by Region (2021-2032)

Figure 16. United States Low-Temperature Cryopreservation Bag Consumption (2021-2032) & (Units)

Figure 17. China Low-Temperature Cryopreservation Bag Consumption (2021-2032) & (Units)

Figure 18. Europe Low-Temperature Cryopreservation Bag Consumption (2021-2032) & (Units)

Figure 19. Japan Low-Temperature Cryopreservation Bag Consumption (2021-2032) & (Units)

Figure 20. South Korea Low-Temperature Cryopreservation Bag Consumption (2021-2032) & (Units)

Figure 21. ASEAN Low-Temperature Cryopreservation Bag Consumption (2021-2032) & (Units)

Figure 22. India Low-Temperature Cryopreservation Bag Consumption (2021-2032) & (Units)

Figure 23. Producer Shipments of Low-Temperature Cryopreservation Bag by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Low-Temperature Cryopreservation Bag Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Low-Temperature Cryopreservation Bag Markets in 2025

Figure 26. United States VS China: Low-Temperature Cryopreservation Bag Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Low-Temperature Cryopreservation Bag Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Low-Temperature Cryopreservation Bag Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Low-Temperature Cryopreservation Bag Production Market Share 2025

Figure 30. China Based Manufacturers Low-Temperature Cryopreservation Bag Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Low-Temperature Cryopreservation Bag Production Market Share 2025

Figure 32. World Low-Temperature Cryopreservation Bag Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Low-Temperature Cryopreservation Bag Production Value Market Share by Type in 2025

Figure 34. Blood Component Bags

Figure 35. Cellular Product Bags

Figure 36. Tissue Storage Bags

Figure 37. Biologics Freeze-Thaw Bags

Figure 38. Other Biologic Sample Bags

Figure 39. World Low-Temperature Cryopreservation Bag Production Market Share by Type (2021-2032)

Figure 40. World Low-Temperature Cryopreservation Bag Production Value Market Share by Type (2021-2032)

Figure 41. World Low-Temperature Cryopreservation Bag Average Price by Type (2021-2032) & (US\$/Unit)

Figure 42. World Low-Temperature Cryopreservation Bag Production Value by Film Material, (USD Million), 2021 & 2025 & 2032

Figure 43. World Low-Temperature Cryopreservation Bag Production Value Market Share by Film Material in 2025

Figure 44. EVA and Polyolefin Bags

Figure 45. FEP Bags

Figure 46. Multi-Layer Bioprocess Film Bags

Figure 47. Proprietary Polymer Blend Bags

Figure 48. Other Material Bags

Figure 49. World Low-Temperature Cryopreservation Bag Production Market Share by Film Material (2021-2032)

Figure 50. World Low-Temperature Cryopreservation Bag Production Value Market Share by Film Material (2021-2032)

Figure 51. World Low-Temperature Cryopreservation Bag Average Price by Film Material (2021-2032) & (US\$/Unit)

Figure 52. World Low-Temperature Cryopreservation Bag Production Value by Storage Environment, (USD Million), 2021 & 2025 & 2032

Figure 53. World Low-Temperature Cryopreservation Bag Production Value Market Share by Storage Environment in 2025

Figure 54. Liquid Nitrogen Grade Bags

Figure 55. Vapor-Phase Cryogenic Bags

Figure 56. Ultra-Low Freezer Grade Bags

Figure 57. Frozen Shipping Grade Bags

Figure 58. Other Temperature Grade Bags

Figure 59. World Low-Temperature Cryopreservation Bag Production Market Share by Storage Environment (2021-2032)

Figure 60. World Low-Temperature Cryopreservation Bag Production Value Market Share by Storage Environment (2021-2032)

Figure 61. World Low-Temperature Cryopreservation Bag Average Price by Storage Environment (2021-2032) & (US\$/Unit)

Figure 62. World Low-Temperature Cryopreservation Bag Production Value by Bag Configuration, (USD Million), 2021 & 2025 & 2032

Figure 63. World Low-Temperature Cryopreservation Bag Production Value Market Share by Bag Configuration in 2025

Figure 64. Single-Compartment Bags

Figure 65. Dual-Compartment Bags

Figure 66. Multi-Compartment Bags

Figure 67. Conical or Small-Volume Bags

Figure 68. Secondary Overwrap Bags

Figure 69. Custom Configuration Bags

Figure 70. World Low-Temperature Cryopreservation Bag Production Market Share by Bag Configuration (2021-2032)

Figure 71. World Low-Temperature Cryopreservation Bag Production Value Market Share by Bag Configuration (2021-2032)

Figure 72. World Low-Temperature Cryopreservation Bag Average Price by Bag Configuration (2021-2032) & (US\$/Unit)

Figure 73. World Low-Temperature Cryopreservation Bag Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 74. World Low-Temperature Cryopreservation Bag Production Value Market Share by Application in 2025

Figure 75. Cell and Gene Therapy Manufacturing

Figure 76. Stem Cell Banking and Transplantation

Figure 77. Blood Component Cryostorage

Figure 78. Tissue Banking and Regenerative Medicine

Figure 79. Biopharmaceutical Bulk Storage

Figure 80. Research Biobanking and Sample Storage

Figure 81. World Low-Temperature Cryopreservation Bag Production Market Share by Application (2021-2032)

Figure 82. World Low-Temperature Cryopreservation Bag Production Value Market Share by Application (2021-2032)

Figure 83. World Low-Temperature Cryopreservation Bag Average Price by Application (2021-2032) & (US\$/Unit)

Figure 84. Low-Temperature Cryopreservation Bag Industry Chain

Figure 85. Low-Temperature Cryopreservation Bag Procurement Model

Figure 86. Low-Temperature Cryopreservation Bag Sales Model

Figure 87. Low-Temperature Cryopreservation Bag Sales Channels, Direct Sales, and Distribution

Figure 88. Methodology

Figure 89. Research Process and Data Source

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