

Global Non-permeable Cryoprotectant Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

<https://marketpublishers.com/r/G1E266FAE1B4EN.html>

Date: November 2025

Pages: 108

Price: US\$ 3,480.00 (Single User License)

ID: G1E266FAE1B4EN

Abstracts

According to our (Global Info Research) latest study, the global Non-permeable Cryoprotectant market size was valued at US\$ 66.2 million in 2024 and is forecast to a readjusted size of USD 87.7 million by 2031 with a CAGR of 4.1% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Non-permeable cryoprotectants are a class of macromolecules that cannot penetrate the cell membrane. They work in the extracellular environment to reduce damage to cells during freezing. Unlike permeable cryoprotectants, non-permeable cryoprotectants cannot enter the interior of cells, but protect cells from freezing damage by regulating extracellular osmotic pressure, reducing intracellular ice crystal formation, and maintaining cell membrane integrity.

This report is a detailed and comprehensive analysis for global Non-permeable Cryoprotectant 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 Non-permeable Cryoprotectant market size and forecasts, in consumption value (\$ Million), sales quantity (g), and average selling prices (US\$/mg), 2020-2031

Global Non-permeable Cryoprotectant market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (g), and average selling prices (US\$/mg), 2020-2031

Global Non-permeable Cryoprotectant market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (g), and average selling prices (US\$/mg), 2020-2031

Global Non-permeable Cryoprotectant market shares of main players, shipments in revenue (\$ Million), sales quantity (g), and ASP (US\$/mg), 2020-2025

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 Non-permeable Cryoprotectant
- 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 Non-permeable Cryoprotectant 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 Merck, Thermo Fisher Scientific, FUJIFILM Irvine Scientific, BioLife Solutions, CryoProtect Tech, Nippon Zenyaku Kogyo, Trehalose by Barentz, X-Therma, Shanghai Biyuntian Biotechnology, Beijing Solebio Technology, etc.

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

Market Segmentation

Non-permeable Cryoprotectant market is split by Type and by Application. For the period 2020-2031, 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

Carbohydrates

Polymers

Proteins

Others

Market segment by Application

Biomedicine

Life Science Research

Others

Major players covered

Merck

Thermo Fisher Scientific

FUJIFILM Irvine Scientific

BioLife Solutions

CryoProtect Tech

Nippon Zenyaku Kogyo

Trehalose by Barentz

X-Therma

Shanghai Biyuntian Biotechnology

Beijing Solebio Technology

Wuhan Huamei Biotechnology

Ningbo Xinzhi Biotechnology

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 Non-permeable Cryoprotectant product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Non-permeable Cryoprotectant, with price, sales quantity, revenue, and global market share of Non-permeable Cryoprotectant from 2020 to 2025.

Chapter 3, the Non-permeable Cryoprotectant competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Non-permeable Cryoprotectant breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Non-permeable Cryoprotectant market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Non-

permeable Cryoprotectant.

Chapter 14 and 15, to describe Non-permeable Cryoprotectant sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Non-permeable Cryoprotectant Consumption Value by Type: 2020 Versus 2024 Versus 2031

1.3.2 Carbohydrates

1.3.3 Polymers

1.3.4 Proteins

1.3.5 Others

1.4 Market Analysis by Application

1.4.1 Overview: Global Non-permeable Cryoprotectant Consumption Value by Application: 2020 Versus 2024 Versus 2031

1.4.2 Biomedicine

1.4.3 Life Science Research

1.4.4 Others

1.5 Global Non-permeable Cryoprotectant Market Size & Forecast

1.5.1 Global Non-permeable Cryoprotectant Consumption Value (2020 & 2024 & 2031)

1.5.2 Global Non-permeable Cryoprotectant Sales Quantity (2020-2031)

1.5.3 Global Non-permeable Cryoprotectant Average Price (2020-2031)

2 MANUFACTURERS PROFILES

2.1 Merck

2.1.1 Merck Details

2.1.2 Merck Major Business

2.1.3 Merck Non-permeable Cryoprotectant Product and Services

2.1.4 Merck Non-permeable Cryoprotectant Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.1.5 Merck Recent Developments/Updates

2.2 Thermo Fisher Scientific

2.2.1 Thermo Fisher Scientific Details

2.2.2 Thermo Fisher Scientific Major Business

2.2.3 Thermo Fisher Scientific Non-permeable Cryoprotectant Product and Services

2.2.4 Thermo Fisher Scientific Non-permeable Cryoprotectant Sales Quantity, Average

Price, Revenue, Gross Margin and Market Share (2020-2025)

2.2.5 Thermo Fisher Scientific Recent Developments/Updates

2.3 FUJIFILM Irvine Scientific

2.3.1 FUJIFILM Irvine Scientific Details

2.3.2 FUJIFILM Irvine Scientific Major Business

2.3.3 FUJIFILM Irvine Scientific Non-permeable Cryoprotectant Product and Services

2.3.4 FUJIFILM Irvine Scientific Non-permeable Cryoprotectant Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.3.5 FUJIFILM Irvine Scientific Recent Developments/Updates

2.4 BioLife Solutions

2.4.1 BioLife Solutions Details

2.4.2 BioLife Solutions Major Business

2.4.3 BioLife Solutions Non-permeable Cryoprotectant Product and Services

2.4.4 BioLife Solutions Non-permeable Cryoprotectant Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.4.5 BioLife Solutions Recent Developments/Updates

2.5 CryoProtect Tech

2.5.1 CryoProtect Tech Details

2.5.2 CryoProtect Tech Major Business

2.5.3 CryoProtect Tech Non-permeable Cryoprotectant Product and Services

2.5.4 CryoProtect Tech Non-permeable Cryoprotectant Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.5.5 CryoProtect Tech Recent Developments/Updates

2.6 Nippon Zenyaku Kogyo

2.6.1 Nippon Zenyaku Kogyo Details

2.6.2 Nippon Zenyaku Kogyo Major Business

2.6.3 Nippon Zenyaku Kogyo Non-permeable Cryoprotectant Product and Services

2.6.4 Nippon Zenyaku Kogyo Non-permeable Cryoprotectant Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.6.5 Nippon Zenyaku Kogyo Recent Developments/Updates

2.7 Trehalose by Barentz

2.7.1 Trehalose by Barentz Details

2.7.2 Trehalose by Barentz Major Business

2.7.3 Trehalose by Barentz Non-permeable Cryoprotectant Product and Services

2.7.4 Trehalose by Barentz Non-permeable Cryoprotectant Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.7.5 Trehalose by Barentz Recent Developments/Updates

2.8 X-Therma

2.8.1 X-Therma Details

- 2.8.2 X-Therma Major Business
- 2.8.3 X-Therma Non-permeable Cryoprotectant Product and Services
- 2.8.4 X-Therma Non-permeable Cryoprotectant Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
- 2.8.5 X-Therma Recent Developments/Updates
- 2.9 Shanghai Biyuntian Biotechnology
 - 2.9.1 Shanghai Biyuntian Biotechnology Details
 - 2.9.2 Shanghai Biyuntian Biotechnology Major Business
 - 2.9.3 Shanghai Biyuntian Biotechnology Non-permeable Cryoprotectant Product and Services
 - 2.9.4 Shanghai Biyuntian Biotechnology Non-permeable Cryoprotectant Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.9.5 Shanghai Biyuntian Biotechnology Recent Developments/Updates
- 2.10 Beijing Solebio Technology
 - 2.10.1 Beijing Solebio Technology Details
 - 2.10.2 Beijing Solebio Technology Major Business
 - 2.10.3 Beijing Solebio Technology Non-permeable Cryoprotectant Product and Services
 - 2.10.4 Beijing Solebio Technology Non-permeable Cryoprotectant Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.10.5 Beijing Solebio Technology Recent Developments/Updates
- 2.11 Wuhan Huamei Biotechnology
 - 2.11.1 Wuhan Huamei Biotechnology Details
 - 2.11.2 Wuhan Huamei Biotechnology Major Business
 - 2.11.3 Wuhan Huamei Biotechnology Non-permeable Cryoprotectant Product and Services
 - 2.11.4 Wuhan Huamei Biotechnology Non-permeable Cryoprotectant Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.11.5 Wuhan Huamei Biotechnology Recent Developments/Updates
- 2.12 Ningbo Xinzhi Biotechnology
 - 2.12.1 Ningbo Xinzhi Biotechnology Details
 - 2.12.2 Ningbo Xinzhi Biotechnology Major Business
 - 2.12.3 Ningbo Xinzhi Biotechnology Non-permeable Cryoprotectant Product and Services
 - 2.12.4 Ningbo Xinzhi Biotechnology Non-permeable Cryoprotectant Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.12.5 Ningbo Xinzhi Biotechnology Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: NON-PERMEABLE CRYOPROTECTANT BY

MANUFACTURER

- 3.1 Global Non-permeable Cryoprotectant Sales Quantity by Manufacturer (2020-2025)
- 3.2 Global Non-permeable Cryoprotectant Revenue by Manufacturer (2020-2025)
- 3.3 Global Non-permeable Cryoprotectant Average Price by Manufacturer (2020-2025)
- 3.4 Market Share Analysis (2024)
 - 3.4.1 Producer Shipments of Non-permeable Cryoprotectant by Manufacturer Revenue (\$MM) and Market Share (%): 2024
 - 3.4.2 Top 3 Non-permeable Cryoprotectant Manufacturer Market Share in 2024
 - 3.4.3 Top 6 Non-permeable Cryoprotectant Manufacturer Market Share in 2024
- 3.5 Non-permeable Cryoprotectant Market: Overall Company Footprint Analysis
 - 3.5.1 Non-permeable Cryoprotectant Market: Region Footprint
 - 3.5.2 Non-permeable Cryoprotectant Market: Company Product Type Footprint
 - 3.5.3 Non-permeable Cryoprotectant Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global Non-permeable Cryoprotectant Market Size by Region
 - 4.1.1 Global Non-permeable Cryoprotectant Sales Quantity by Region (2020-2031)
 - 4.1.2 Global Non-permeable Cryoprotectant Consumption Value by Region (2020-2031)
 - 4.1.3 Global Non-permeable Cryoprotectant Average Price by Region (2020-2031)
- 4.2 North America Non-permeable Cryoprotectant Consumption Value (2020-2031)
- 4.3 Europe Non-permeable Cryoprotectant Consumption Value (2020-2031)
- 4.4 Asia-Pacific Non-permeable Cryoprotectant Consumption Value (2020-2031)
- 4.5 South America Non-permeable Cryoprotectant Consumption Value (2020-2031)
- 4.6 Middle East & Africa Non-permeable Cryoprotectant Consumption Value (2020-2031)

5 MARKET SEGMENT BY TYPE

- 5.1 Global Non-permeable Cryoprotectant Sales Quantity by Type (2020-2031)
- 5.2 Global Non-permeable Cryoprotectant Consumption Value by Type (2020-2031)
- 5.3 Global Non-permeable Cryoprotectant Average Price by Type (2020-2031)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global Non-permeable Cryoprotectant Sales Quantity by Application (2020-2031)
- 6.2 Global Non-permeable Cryoprotectant Consumption Value by Application (2020-2031)
- 6.3 Global Non-permeable Cryoprotectant Average Price by Application (2020-2031)

7 NORTH AMERICA

- 7.1 North America Non-permeable Cryoprotectant Sales Quantity by Type (2020-2031)
- 7.2 North America Non-permeable Cryoprotectant Sales Quantity by Application (2020-2031)
- 7.3 North America Non-permeable Cryoprotectant Market Size by Country
 - 7.3.1 North America Non-permeable Cryoprotectant Sales Quantity by Country (2020-2031)
 - 7.3.2 North America Non-permeable Cryoprotectant Consumption Value by Country (2020-2031)
 - 7.3.3 United States Market Size and Forecast (2020-2031)
 - 7.3.4 Canada Market Size and Forecast (2020-2031)
 - 7.3.5 Mexico Market Size and Forecast (2020-2031)

8 EUROPE

- 8.1 Europe Non-permeable Cryoprotectant Sales Quantity by Type (2020-2031)
- 8.2 Europe Non-permeable Cryoprotectant Sales Quantity by Application (2020-2031)
- 8.3 Europe Non-permeable Cryoprotectant Market Size by Country
 - 8.3.1 Europe Non-permeable Cryoprotectant Sales Quantity by Country (2020-2031)
 - 8.3.2 Europe Non-permeable Cryoprotectant Consumption Value by Country (2020-2031)
 - 8.3.3 Germany Market Size and Forecast (2020-2031)
 - 8.3.4 France Market Size and Forecast (2020-2031)
 - 8.3.5 United Kingdom Market Size and Forecast (2020-2031)
 - 8.3.6 Russia Market Size and Forecast (2020-2031)
 - 8.3.7 Italy Market Size and Forecast (2020-2031)

9 ASIA-PACIFIC

- 9.1 Asia-Pacific Non-permeable Cryoprotectant Sales Quantity by Type (2020-2031)
- 9.2 Asia-Pacific Non-permeable Cryoprotectant Sales Quantity by Application (2020-2031)
- 9.3 Asia-Pacific Non-permeable Cryoprotectant Market Size by Region

9.3.1 Asia-Pacific Non-permeable Cryoprotectant Sales Quantity by Region (2020-2031)

9.3.2 Asia-Pacific Non-permeable Cryoprotectant Consumption Value by Region (2020-2031)

9.3.3 China Market Size and Forecast (2020-2031)

9.3.4 Japan Market Size and Forecast (2020-2031)

9.3.5 South Korea Market Size and Forecast (2020-2031)

9.3.6 India Market Size and Forecast (2020-2031)

9.3.7 Southeast Asia Market Size and Forecast (2020-2031)

9.3.8 Australia Market Size and Forecast (2020-2031)

10 SOUTH AMERICA

10.1 South America Non-permeable Cryoprotectant Sales Quantity by Type (2020-2031)

10.2 South America Non-permeable Cryoprotectant Sales Quantity by Application (2020-2031)

10.3 South America Non-permeable Cryoprotectant Market Size by Country

10.3.1 South America Non-permeable Cryoprotectant Sales Quantity by Country (2020-2031)

10.3.2 South America Non-permeable Cryoprotectant Consumption Value by Country (2020-2031)

10.3.3 Brazil Market Size and Forecast (2020-2031)

10.3.4 Argentina Market Size and Forecast (2020-2031)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Non-permeable Cryoprotectant Sales Quantity by Type (2020-2031)

11.2 Middle East & Africa Non-permeable Cryoprotectant Sales Quantity by Application (2020-2031)

11.3 Middle East & Africa Non-permeable Cryoprotectant Market Size by Country

11.3.1 Middle East & Africa Non-permeable Cryoprotectant Sales Quantity by Country (2020-2031)

11.3.2 Middle East & Africa Non-permeable Cryoprotectant Consumption Value by Country (2020-2031)

11.3.3 Turkey Market Size and Forecast (2020-2031)

11.3.4 Egypt Market Size and Forecast (2020-2031)

11.3.5 Saudi Arabia Market Size and Forecast (2020-2031)

11.3.6 South Africa Market Size and Forecast (2020-2031)

12 MARKET DYNAMICS

- 12.1 Non-permeable Cryoprotectant Market Drivers
- 12.2 Non-permeable Cryoprotectant Market Restraints
- 12.3 Non-permeable Cryoprotectant Trends Analysis
- 12.4 Porters Five Forces Analysis
 - 12.4.1 Threat of New Entrants
 - 12.4.2 Bargaining Power of Suppliers
 - 12.4.3 Bargaining Power of Buyers
 - 12.4.4 Threat of Substitutes
 - 12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of Non-permeable Cryoprotectant and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Non-permeable Cryoprotectant
- 13.3 Non-permeable Cryoprotectant Production Process
- 13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 Non-permeable Cryoprotectant Typical Distributors
- 14.3 Non-permeable Cryoprotectant Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Non-permeable Cryoprotectant Consumption Value by Type, (USD Million), 2020 & 2024 & 2031

Table 2. Global Non-permeable Cryoprotectant Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Table 3. Merck Basic Information, Manufacturing Base and Competitors

Table 4. Merck Major Business

Table 5. Merck Non-permeable Cryoprotectant Product and Services

Table 6. Merck Non-permeable Cryoprotectant Sales Quantity (g), Average Price (US\$/mg), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 7. Merck Recent Developments/Updates

Table 8. Thermo Fisher Scientific Basic Information, Manufacturing Base and Competitors

Table 9. Thermo Fisher Scientific Major Business

Table 10. Thermo Fisher Scientific Non-permeable Cryoprotectant Product and Services

Table 11. Thermo Fisher Scientific Non-permeable Cryoprotectant Sales Quantity (g), Average Price (US\$/mg), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 12. Thermo Fisher Scientific Recent Developments/Updates

Table 13. FUJIFILM Irvine Scientific Basic Information, Manufacturing Base and Competitors

Table 14. FUJIFILM Irvine Scientific Major Business

Table 15. FUJIFILM Irvine Scientific Non-permeable Cryoprotectant Product and Services

Table 16. FUJIFILM Irvine Scientific Non-permeable Cryoprotectant Sales Quantity (g), Average Price (US\$/mg), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 17. FUJIFILM Irvine Scientific Recent Developments/Updates

Table 18. BioLife Solutions Basic Information, Manufacturing Base and Competitors

Table 19. BioLife Solutions Major Business

Table 20. BioLife Solutions Non-permeable Cryoprotectant Product and Services

Table 21. BioLife Solutions Non-permeable Cryoprotectant Sales Quantity (g), Average Price (US\$/mg), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 22. BioLife Solutions Recent Developments/Updates

Table 23. CryoProtect Tech Basic Information, Manufacturing Base and Competitors

Table 24. CryoProtect Tech Major Business

Table 25. CryoProtect Tech Non-permeable Cryoprotectant Product and Services

Table 26. CryoProtect Tech Non-permeable Cryoprotectant Sales Quantity (g), Average Price (US\$/mg), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 27. CryoProtect Tech Recent Developments/Updates

Table 28. Nippon Zenyaku Kogyo Basic Information, Manufacturing Base and Competitors

Table 29. Nippon Zenyaku Kogyo Major Business

Table 30. Nippon Zenyaku Kogyo Non-permeable Cryoprotectant Product and Services

Table 31. Nippon Zenyaku Kogyo Non-permeable Cryoprotectant Sales Quantity (g), Average Price (US\$/mg), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 32. Nippon Zenyaku Kogyo Recent Developments/Updates

Table 33. Trehalose by Barentz Basic Information, Manufacturing Base and Competitors

Table 34. Trehalose by Barentz Major Business

Table 35. Trehalose by Barentz Non-permeable Cryoprotectant Product and Services

Table 36. Trehalose by Barentz Non-permeable Cryoprotectant Sales Quantity (g), Average Price (US\$/mg), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 37. Trehalose by Barentz Recent Developments/Updates

Table 38. X-Therma Basic Information, Manufacturing Base and Competitors

Table 39. X-Therma Major Business

Table 40. X-Therma Non-permeable Cryoprotectant Product and Services

Table 41. X-Therma Non-permeable Cryoprotectant Sales Quantity (g), Average Price (US\$/mg), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 42. X-Therma Recent Developments/Updates

Table 43. Shanghai Biyuntian Biotechnology Basic Information, Manufacturing Base and Competitors

Table 44. Shanghai Biyuntian Biotechnology Major Business

Table 45. Shanghai Biyuntian Biotechnology Non-permeable Cryoprotectant Product and Services

Table 46. Shanghai Biyuntian Biotechnology Non-permeable Cryoprotectant Sales Quantity (g), Average Price (US\$/mg), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 47. Shanghai Biyuntian Biotechnology Recent Developments/Updates

Table 48. Beijing Solebio Technology Basic Information, Manufacturing Base and Competitors

Table 49. Beijing Solebio Technology Major Business

Table 50. Beijing Solebio Technology Non-permeable Cryoprotectant Product and Services

Table 51. Beijing Solebio Technology Non-permeable Cryoprotectant Sales Quantity (g), Average Price (US\$/mg), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 52. Beijing Solebio Technology Recent Developments/Updates

Table 53. Wuhan Huamei Biotechnology Basic Information, Manufacturing Base and Competitors

Table 54. Wuhan Huamei Biotechnology Major Business

Table 55. Wuhan Huamei Biotechnology Non-permeable Cryoprotectant Product and Services

Table 56. Wuhan Huamei Biotechnology Non-permeable Cryoprotectant Sales Quantity (g), Average Price (US\$/mg), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 57. Wuhan Huamei Biotechnology Recent Developments/Updates

Table 58. Ningbo Xinzhi Biotechnology Basic Information, Manufacturing Base and Competitors

Table 59. Ningbo Xinzhi Biotechnology Major Business

Table 60. Ningbo Xinzhi Biotechnology Non-permeable Cryoprotectant Product and Services

Table 61. Ningbo Xinzhi Biotechnology Non-permeable Cryoprotectant Sales Quantity (g), Average Price (US\$/mg), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 62. Ningbo Xinzhi Biotechnology Recent Developments/Updates

Table 63. Global Non-permeable Cryoprotectant Sales Quantity by Manufacturer (2020-2025) & (g)

Table 64. Global Non-permeable Cryoprotectant Revenue by Manufacturer (2020-2025) & (USD Million)

Table 65. Global Non-permeable Cryoprotectant Average Price by Manufacturer (2020-2025) & (US\$/mg)

Table 66. Market Position of Manufacturers in Non-permeable Cryoprotectant, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2024

Table 67. Head Office and Non-permeable Cryoprotectant Production Site of Key Manufacturer

Table 68. Non-permeable Cryoprotectant Market: Company Product Type Footprint

Table 69. Non-permeable Cryoprotectant Market: Company Product Application Footprint

Table 70. Non-permeable Cryoprotectant New Market Entrants and Barriers to Market Entry

Table 71. Non-permeable Cryoprotectant Mergers, Acquisition, Agreements, and Collaborations

Table 72. Global Non-permeable Cryoprotectant Consumption Value by Region (2020-2024-2031) & (USD Million) & CAGR

Table 73. Global Non-permeable Cryoprotectant Sales Quantity by Region (2020-2025) & (g)

Table 74. Global Non-permeable Cryoprotectant Sales Quantity by Region (2026-2031) & (g)

Table 75. Global Non-permeable Cryoprotectant Consumption Value by Region (2020-2025) & (USD Million)

Table 76. Global Non-permeable Cryoprotectant Consumption Value by Region (2026-2031) & (USD Million)

Table 77. Global Non-permeable Cryoprotectant Average Price by Region (2020-2025) & (US\$/mg)

Table 78. Global Non-permeable Cryoprotectant Average Price by Region (2026-2031) & (US\$/mg)

Table 79. Global Non-permeable Cryoprotectant Sales Quantity by Type (2020-2025) & (g)

Table 80. Global Non-permeable Cryoprotectant Sales Quantity by Type (2026-2031) & (g)

Table 81. Global Non-permeable Cryoprotectant Consumption Value by Type (2020-2025) & (USD Million)

Table 82. Global Non-permeable Cryoprotectant Consumption Value by Type (2026-2031) & (USD Million)

Table 83. Global Non-permeable Cryoprotectant Average Price by Type (2020-2025) & (US\$/mg)

Table 84. Global Non-permeable Cryoprotectant Average Price by Type (2026-2031) & (US\$/mg)

Table 85. Global Non-permeable Cryoprotectant Sales Quantity by Application (2020-2025) & (g)

Table 86. Global Non-permeable Cryoprotectant Sales Quantity by Application (2026-2031) & (g)

Table 87. Global Non-permeable Cryoprotectant Consumption Value by Application (2020-2025) & (USD Million)

Table 88. Global Non-permeable Cryoprotectant Consumption Value by Application (2026-2031) & (USD Million)

Table 89. Global Non-permeable Cryoprotectant Average Price by Application (2020-2025) & (US\$/mg)

Table 90. Global Non-permeable Cryoprotectant Average Price by Application

(2026-2031) & (US\$/mg)

Table 91. North America Non-permeable Cryoprotectant Sales Quantity by Type (2020-2025) & (g)

Table 92. North America Non-permeable Cryoprotectant Sales Quantity by Type (2026-2031) & (g)

Table 93. North America Non-permeable Cryoprotectant Sales Quantity by Application (2020-2025) & (g)

Table 94. North America Non-permeable Cryoprotectant Sales Quantity by Application (2026-2031) & (g)

Table 95. North America Non-permeable Cryoprotectant Sales Quantity by Country (2020-2025) & (g)

Table 96. North America Non-permeable Cryoprotectant Sales Quantity by Country (2026-2031) & (g)

Table 97. North America Non-permeable Cryoprotectant Consumption Value by Country (2020-2025) & (USD Million)

Table 98. North America Non-permeable Cryoprotectant Consumption Value by Country (2026-2031) & (USD Million)

Table 99. Europe Non-permeable Cryoprotectant Sales Quantity by Type (2020-2025) & (g)

Table 100. Europe Non-permeable Cryoprotectant Sales Quantity by Type (2026-2031) & (g)

Table 101. Europe Non-permeable Cryoprotectant Sales Quantity by Application (2020-2025) & (g)

Table 102. Europe Non-permeable Cryoprotectant Sales Quantity by Application (2026-2031) & (g)

Table 103. Europe Non-permeable Cryoprotectant Sales Quantity by Country (2020-2025) & (g)

Table 104. Europe Non-permeable Cryoprotectant Sales Quantity by Country (2026-2031) & (g)

Table 105. Europe Non-permeable Cryoprotectant Consumption Value by Country (2020-2025) & (USD Million)

Table 106. Europe Non-permeable Cryoprotectant Consumption Value by Country (2026-2031) & (USD Million)

Table 107. Asia-Pacific Non-permeable Cryoprotectant Sales Quantity by Type (2020-2025) & (g)

Table 108. Asia-Pacific Non-permeable Cryoprotectant Sales Quantity by Type (2026-2031) & (g)

Table 109. Asia-Pacific Non-permeable Cryoprotectant Sales Quantity by Application (2020-2025) & (g)

Table 110. Asia-Pacific Non-permeable Cryoprotectant Sales Quantity by Application (2026-2031) & (g)

Table 111. Asia-Pacific Non-permeable Cryoprotectant Sales Quantity by Region (2020-2025) & (g)

Table 112. Asia-Pacific Non-permeable Cryoprotectant Sales Quantity by Region (2026-2031) & (g)

Table 113. Asia-Pacific Non-permeable Cryoprotectant Consumption Value by Region (2020-2025) & (USD Million)

Table 114. Asia-Pacific Non-permeable Cryoprotectant Consumption Value by Region (2026-2031) & (USD Million)

Table 115. South America Non-permeable Cryoprotectant Sales Quantity by Type (2020-2025) & (g)

Table 116. South America Non-permeable Cryoprotectant Sales Quantity by Type (2026-2031) & (g)

Table 117. South America Non-permeable Cryoprotectant Sales Quantity by Application (2020-2025) & (g)

Table 118. South America Non-permeable Cryoprotectant Sales Quantity by Application (2026-2031) & (g)

Table 119. South America Non-permeable Cryoprotectant Sales Quantity by Country (2020-2025) & (g)

Table 120. South America Non-permeable Cryoprotectant Sales Quantity by Country (2026-2031) & (g)

Table 121. South America Non-permeable Cryoprotectant Consumption Value by Country (2020-2025) & (USD Million)

Table 122. South America Non-permeable Cryoprotectant Consumption Value by Country (2026-2031) & (USD Million)

Table 123. Middle East & Africa Non-permeable Cryoprotectant Sales Quantity by Type (2020-2025) & (g)

Table 124. Middle East & Africa Non-permeable Cryoprotectant Sales Quantity by Type (2026-2031) & (g)

Table 125. Middle East & Africa Non-permeable Cryoprotectant Sales Quantity by Application (2020-2025) & (g)

Table 126. Middle East & Africa Non-permeable Cryoprotectant Sales Quantity by Application (2026-2031) & (g)

Table 127. Middle East & Africa Non-permeable Cryoprotectant Sales Quantity by Country (2020-2025) & (g)

Table 128. Middle East & Africa Non-permeable Cryoprotectant Sales Quantity by Country (2026-2031) & (g)

Table 129. Middle East & Africa Non-permeable Cryoprotectant Consumption Value by

Country (2020-2025) & (USD Million)

Table 130. Middle East & Africa Non-permeable Cryoprotectant Consumption Value by Country (2026-2031) & (USD Million)

Table 131. Non-permeable Cryoprotectant Raw Material

Table 132. Key Manufacturers of Non-permeable Cryoprotectant Raw Materials

Table 133. Non-permeable Cryoprotectant Typical Distributors

Table 134. Non-permeable Cryoprotectant Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Non-permeable Cryoprotectant Picture

Figure 2. Global Non-permeable Cryoprotectant Revenue by Type, (USD Million), 2020 & 2024 & 2031

Figure 3. Global Non-permeable Cryoprotectant Revenue Market Share by Type in 2024

Figure 4. Carbohydrates Examples

Figure 5. Polymers Examples

Figure 6. Proteins Examples

Figure 7. Others Examples

Figure 8. Global Non-permeable Cryoprotectant Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Figure 9. Global Non-permeable Cryoprotectant Revenue Market Share by Application in 2024

Figure 10. Biomedicine Examples

Figure 11. Life Science Research Examples

Figure 12. Others Examples

Figure 13. Global Non-permeable Cryoprotectant Consumption Value, (USD Million): 2020 & 2024 & 2031

Figure 14. Global Non-permeable Cryoprotectant Consumption Value and Forecast (2020-2031) & (USD Million)

Figure 15. Global Non-permeable Cryoprotectant Sales Quantity (2020-2031) & (g)

Figure 16. Global Non-permeable Cryoprotectant Price (2020-2031) & (US\$/mg)

Figure 17. Global Non-permeable Cryoprotectant Sales Quantity Market Share by Manufacturer in 2024

Figure 18. Global Non-permeable Cryoprotectant Revenue Market Share by Manufacturer in 2024

Figure 19. Producer Shipments of Non-permeable Cryoprotectant by Manufacturer Sales (\$MM) and Market Share (%): 2024

Figure 20. Top 3 Non-permeable Cryoprotectant Manufacturer (Revenue) Market Share in 2024

Figure 21. Top 6 Non-permeable Cryoprotectant Manufacturer (Revenue) Market Share in 2024

Figure 22. Global Non-permeable Cryoprotectant Sales Quantity Market Share by Region (2020-2031)

Figure 23. Global Non-permeable Cryoprotectant Consumption Value Market Share by

Region (2020-2031)

Figure 24. North America Non-permeable Cryoprotectant Consumption Value (2020-2031) & (USD Million)

Figure 25. Europe Non-permeable Cryoprotectant Consumption Value (2020-2031) & (USD Million)

Figure 26. Asia-Pacific Non-permeable Cryoprotectant Consumption Value (2020-2031) & (USD Million)

Figure 27. South America Non-permeable Cryoprotectant Consumption Value (2020-2031) & (USD Million)

Figure 28. Middle East & Africa Non-permeable Cryoprotectant Consumption Value (2020-2031) & (USD Million)

Figure 29. Global Non-permeable Cryoprotectant Sales Quantity Market Share by Type (2020-2031)

Figure 30. Global Non-permeable Cryoprotectant Consumption Value Market Share by Type (2020-2031)

Figure 31. Global Non-permeable Cryoprotectant Average Price by Type (2020-2031) & (US\$/mg)

Figure 32. Global Non-permeable Cryoprotectant Sales Quantity Market Share by Application (2020-2031)

Figure 33. Global Non-permeable Cryoprotectant Revenue Market Share by Application (2020-2031)

Figure 34. Global Non-permeable Cryoprotectant Average Price by Application (2020-2031) & (US\$/mg)

Figure 35. North America Non-permeable Cryoprotectant Sales Quantity Market Share by Type (2020-2031)

Figure 36. North America Non-permeable Cryoprotectant Sales Quantity Market Share by Application (2020-2031)

Figure 37. North America Non-permeable Cryoprotectant Sales Quantity Market Share by Country (2020-2031)

Figure 38. North America Non-permeable Cryoprotectant Consumption Value Market Share by Country (2020-2031)

Figure 39. United States Non-permeable Cryoprotectant Consumption Value (2020-2031) & (USD Million)

Figure 40. Canada Non-permeable Cryoprotectant Consumption Value (2020-2031) & (USD Million)

Figure 41. Mexico Non-permeable Cryoprotectant Consumption Value (2020-2031) & (USD Million)

Figure 42. Europe Non-permeable Cryoprotectant Sales Quantity Market Share by Type (2020-2031)

Figure 43. Europe Non-permeable Cryoprotectant Sales Quantity Market Share by Application (2020-2031)

Figure 44. Europe Non-permeable Cryoprotectant Sales Quantity Market Share by Country (2020-2031)

Figure 45. Europe Non-permeable Cryoprotectant Consumption Value Market Share by Country (2020-2031)

Figure 46. Germany Non-permeable Cryoprotectant Consumption Value (2020-2031) & (USD Million)

Figure 47. France Non-permeable Cryoprotectant Consumption Value (2020-2031) & (USD Million)

Figure 48. United Kingdom Non-permeable Cryoprotectant Consumption Value (2020-2031) & (USD Million)

Figure 49. Russia Non-permeable Cryoprotectant Consumption Value (2020-2031) & (USD Million)

Figure 50. Italy Non-permeable Cryoprotectant Consumption Value (2020-2031) & (USD Million)

Figure 51. Asia-Pacific Non-permeable Cryoprotectant Sales Quantity Market Share by Type (2020-2031)

Figure 52. Asia-Pacific Non-permeable Cryoprotectant Sales Quantity Market Share by Application (2020-2031)

Figure 53. Asia-Pacific Non-permeable Cryoprotectant Sales Quantity Market Share by Region (2020-2031)

Figure 54. Asia-Pacific Non-permeable Cryoprotectant Consumption Value Market Share by Region (2020-2031)

Figure 55. China Non-permeable Cryoprotectant Consumption Value (2020-2031) & (USD Million)

Figure 56. Japan Non-permeable Cryoprotectant Consumption Value (2020-2031) & (USD Million)

Figure 57. South Korea Non-permeable Cryoprotectant Consumption Value (2020-2031) & (USD Million)

Figure 58. India Non-permeable Cryoprotectant Consumption Value (2020-2031) & (USD Million)

Figure 59. Southeast Asia Non-permeable Cryoprotectant Consumption Value (2020-2031) & (USD Million)

Figure 60. Australia Non-permeable Cryoprotectant Consumption Value (2020-2031) & (USD Million)

Figure 61. South America Non-permeable Cryoprotectant Sales Quantity Market Share by Type (2020-2031)

Figure 62. South America Non-permeable Cryoprotectant Sales Quantity Market Share

by Application (2020-2031)

Figure 63. South America Non-permeable Cryoprotectant Sales Quantity Market Share by Country (2020-2031)

Figure 64. South America Non-permeable Cryoprotectant Consumption Value Market Share by Country (2020-2031)

Figure 65. Brazil Non-permeable Cryoprotectant Consumption Value (2020-2031) & (USD Million)

Figure 66. Argentina Non-permeable Cryoprotectant Consumption Value (2020-2031) & (USD Million)

Figure 67. Middle East & Africa Non-permeable Cryoprotectant Sales Quantity Market Share by Type (2020-2031)

Figure 68. Middle East & Africa Non-permeable Cryoprotectant Sales Quantity Market Share by Application (2020-2031)

Figure 69. Middle East & Africa Non-permeable Cryoprotectant Sales Quantity Market Share by Country (2020-2031)

Figure 70. Middle East & Africa Non-permeable Cryoprotectant Consumption Value Market Share by Country (2020-2031)

Figure 71. Turkey Non-permeable Cryoprotectant Consumption Value (2020-2031) & (USD Million)

Figure 72. Egypt Non-permeable Cryoprotectant Consumption Value (2020-2031) & (USD Million)

Figure 73. Saudi Arabia Non-permeable Cryoprotectant Consumption Value (2020-2031) & (USD Million)

Figure 74. South Africa Non-permeable Cryoprotectant Consumption Value (2020-2031) & (USD Million)

Figure 75. Non-permeable Cryoprotectant Market Drivers

Figure 76. Non-permeable Cryoprotectant Market Restraints

Figure 77. Non-permeable Cryoprotectant Market Trends

Figure 78. Porters Five Forces Analysis

Figure 79. Manufacturing Cost Structure Analysis of Non-permeable Cryoprotectant in 2024

Figure 80. Manufacturing Process Analysis of Non-permeable Cryoprotectant

Figure 81. Non-permeable Cryoprotectant Industrial Chain

Figure 82. Sales Channel: Direct to End-User vs Distributors

Figure 83. Direct Channel Pros & Cons

Figure 84. Indirect Channel Pros & Cons

Figure 85. Methodology

Figure 86. Research Process and Data Source

I would like to order

Product name: Global Non-permeable Cryoprotectant Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

Product link: <https://marketpublishers.com/r/G1E266FAE1B4EN.html>

Price: US\$ 3,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G1E266FAE1B4EN.html>