

Global Cell Cryopreserve Grade DMSO Market Growth 2026-2032

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Abstracts

The global Cell Cryopreserve Grade DMSO market size is predicted to grow from US\$ 63.59 million in 2025 to US\$ 86.30 million in 2032; it is expected to grow at a CAGR of 4.9% from 2026 to 2032.

Cell-freezing grade DMSO is a high-purity dimethyl sulfoxide utilized for the cryopreservation of cells, tissues, and biological samples. Characterized by excellent permeability and the ability to mitigate ice crystal damage, it effectively safeguards cell membranes and preserves cellular viability. Consequently, it is widely employed in fields such as cell therapy, scientific research, and biobanking.

The upstream segment of the industry encompasses high-purity DMSO raw materials, rectification and purification processes, sterile filtration, endotoxin control, pharmaceutical-grade packaging materials, quality testing, and clean-room filling equipment. Downstream applications span diverse sectors, including cell therapy, stem cell banking, CAR-T therapy, vaccine R&D, biopharmaceuticals, scientific research laboratories, and hospital sample preservation.

Globally, the cell-freezing grade DMSO market commands an average unit price of \$130 per liter, with a global sales volume of approximately 500,000 liters. The industry's annual production capacity ranges from 550,000 to 650,000 liters, maintaining a profit margin of approximately 18%.

The global market for cell-freezing grade DMSO is projected to be driven in the future by growth in cell therapy, regenerative medicine, biobanking, and biopharmaceutical R&D. As the demand for the cryopreservation of CAR-T cells, stem cells, immune cells, and primary cells continues to rise, customer expectations regarding product sterility,

low endotoxin levels, low moisture content, batch-to-batch consistency, and regulatory compliance are becoming increasingly stringent. The market is expected to evolve from standard laboratory-grade DMSO toward higher-tier solutions?specifically GMP-grade, pharmacopoeia-grade, animal-origin-free, and ready-to-use cryopreservation kits. Concurrently, advancements in cold-chain logistics, the establishment of cell banks, and the development of personalized medicine will fuel the demand for high-quality cryopreservation reagents. Consequently, competition among suppliers will increasingly focus on core competencies such as purity control, robust quality management systems, comprehensive documentation support, supply chain stability, and biological safety validation capabilities.

LP Information, Inc. (LPI) ' newest research report, the "Cell Cryopreserve Grade DMSO Industry Forecast" looks at past sales and reviews total world Cell Cryopreserve Grade DMSO sales in 2025, providing a comprehensive analysis by region and market sector of projected Cell Cryopreserve Grade DMSO sales for 2026 through 2032. With Cell Cryopreserve Grade DMSO sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Cell Cryopreserve Grade DMSO industry.

This Insight Report provides a comprehensive analysis of the global Cell Cryopreserve Grade DMSO landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Cell Cryopreserve Grade DMSO portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Cell Cryopreserve Grade DMSO market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Cell Cryopreserve Grade DMSO and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Cell Cryopreserve Grade DMSO.

This report presents a comprehensive overview, market shares, and growth opportunities of Cell Cryopreserve Grade DMSO market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

?99.5% DMSO

?99.7% DMSO

?99.8% DMSO

?99.9% DMSO

Ultra-High Purity DMSO

Segmentation by Sterility:

Sterile DMSO

Non-Sterile DMSO

Sterile Filtered DMSO

Aseptic Filled DMSO

Segmentation by Packaging Type:

Glass Bottle Packaging

Plastic Bottle Packaging

Ampoule Packaging

Single-Use Vial Packaging

Bag Packaging

Segmentation by Application:

Cell Culture

Cell Cryopreservation

Pharmacology

Biochemistry

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Merck

Thermo Fisher Scientific

FUJIFILM Wako Pure Chemical

WAK-Chemie Medical

OriGen Biomedical

MP Biomedicals

gChem

Avantor

Bio-Techne

Toray Fine Chemicals

Hubei Xingfa Chemicals Group

Solarbio

Yeasen Biotechnology

Beyotime Biotechnology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Cell Cryopreserve Grade DMSO market?

What factors are driving Cell Cryopreserve Grade DMSO market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Cell Cryopreserve Grade DMSO market opportunities vary by end market size?

How does Cell Cryopreserve Grade DMSO break out by Type, by Application?

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