

Organ Preservation Solution Market Outlook 2025-2034: Market Share, and Growth Analysis By Solution Type (Viaspan, Custodiol-HTK (Histidine- Tryptophan-Ketoglutarate), Renograf, Hypothermosol, Perfadex, Lifor, HBS (Hyperosmotic Blood Substitute) Solution, siRNA (Small Interfering RNA) Transplant Solutions, Other Solution Types), By Organ Type (Kidneys, Liver, Lung, Heart, Other Organ Types), By Technique

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Abstracts

The Organ Preservation Solution Market is valued at USD 255.2 billion in 2025 and is projected to grow at a CAGR of 8.5% to reach USD 531.8 billion by 2034. The organ preservation solution market plays a crucial role in the global organ transplantation industry. Organ preservation solutions are used to maintain the viability of organs during transportation and storage between donation and transplantation. The effectiveness of these solutions directly impacts the success rate of organ transplants. As the demand for organ transplants continues to rise due to the increasing prevalence of organ failure diseases, the need for effective organ preservation methods is more critical than ever. These solutions are designed to preserve organs such as kidneys, livers, and hearts by maintaining cellular function and reducing ischemic injury during cold storage. Additionally, advancements in preservation techniques, such as machine perfusion and the use of novel preservation solutions, are further driving the growth of this market. The market is also benefiting from the increasing number of organ donation programs, awareness initiatives, and improvements in healthcare infrastructure. Technological innovation continues to improve the quality of preservation, allowing for longer storage periods, better preservation of organ function, and an overall increase in successful

transplant outcomes. With the growing demand for organ transplants and improvements in preservation techniques, the organ preservation solution market is expected to expand significantly in the coming years. The organ preservation solution market witnessed significant advancements driven by improvements in preservation technology and the increasing number of organ transplant procedures. The adoption of machine perfusion techniques, where organs are continuously flushed with oxygenated preservation solution, gained traction due to its ability to maintain organ function for longer periods and improve transplant outcomes. New preservation solutions and devices, such as those based on the University of Wisconsin (UW) solution and the Belzer MPS solution, were increasingly used to ensure better organ viability during transport. Additionally, research in organ bioengineering and ex-vivo perfusion technologies began to gain momentum, offering exciting new possibilities for organ preservation and transplantation. The COVID-19 pandemic also played a role in highlighting the importance of efficient organ preservation systems, as the transport of organs was impacted by global travel restrictions. However, the rapid adoption of innovative preservation methods and solutions helped overcome logistical challenges. The market for organ preservation solutions was further boosted by the increasing number of organ transplantations, alongside the rising emphasis on improving organ donor systems and enhancing the success rate of organ transplants globally. The organ preservation solution market is expected to grow even further with advancements in organ preservation technologies and increased focus on improving organ transplant success rates. The integration of artificial intelligence (AI) and machine learning (ML) in organ preservation and transport processes is anticipated to enhance the precision of organ viability assessments and improve storage conditions. With the growing interest in regenerative medicine and bioengineering, it is expected that researchers will continue to develop more sophisticated preservation solutions that can further increase the shelf-life of organs and minimize cellular damage. Personalized organ preservation solutions tailored to specific organs or patients will likely emerge as a significant trend, aligning with the rise in precision medicine. Additionally, more research into the use of warm ischemia preservation methods, which involve maintaining organ function during transport at near-body temperature, is expected to increase. The expansion of organ donation networks, both globally and regionally, combined with better preservation techniques, will provide more opportunities for patients requiring organ transplants, increasing the demand for advanced organ preservation solutions in the future. As more countries focus on improving healthcare access and transplantation systems, the market will continue to grow and evolve.

Key Insights Organ Preservation Solution Market

Adoption of Machine Perfusion Techniques: The adoption of machine perfusion, where organs are continuously flushed with a preservation solution, is a growing trend in organ transplantation. This method ensures that organs maintain functionality for extended periods, leading to better outcomes in transplant surgeries and increasing the use of organ preservation solutions.

Integration of Artificial Intelligence in Organ Viability Assessment: AI and machine learning technologies are expected to play an important role in organ preservation by improving the precision of viability assessments. These technologies can help predict organ function and optimize storage conditions, leading to better decision-making in the organ transplant process.

Personalized Organ Preservation Solutions: As precision medicine continues to advance, there is increasing interest in developing personalized organ preservation solutions tailored to individual organs or patients. This trend aims to improve the success rates of organ transplants by ensuring that preservation methods are specifically designed for each unique case.

Research into Warm Ischemia Preservation: Warm ischemia preservation, a technique in which organs are kept near body temperature during transport, is becoming a significant area of research. This method aims to improve organ viability and reduce ischemic damage, providing a more effective solution for long-distance organ transportation and enhancing transplantation outcomes.

Expansion of Organ Donation Networks: The expansion of organ donation networks worldwide is expected to increase the demand for effective organ preservation solutions. As the number of organ transplants rises, there will be a greater need for advanced preservation techniques to ensure that donated organs remain viable until they reach recipients.

Increasing Prevalence of Organ Failures: The rising prevalence of chronic diseases such as heart disease, liver cirrhosis, and kidney failure is driving the demand for organ transplants, which in turn increases the need for effective organ preservation solutions to ensure successful transplant outcomes.

Advances in Preservation Technology: Technological innovations, such as machine perfusion, improved preservation solutions, and bioengineering techniques, are making organ preservation more effective. These advancements allow for longer storage times and better viability, contributing to the growth of the organ preservation solution market.

Growth in Organ Transplantation Procedures: The rising number of organ transplant procedures, fueled by improvements in organ donation systems and healthcare access, is a significant driver for the market. As more patients require transplants, the need for advanced preservation solutions to maintain organ viability increases.

Focus on Improved Success Rates of Transplants: The growing emphasis on improving the success rates of organ transplants is pushing the demand for better preservation solutions. Enhanced preservation techniques are vital to reducing organ rejection and increasing transplant success, which drives the growth of the organ preservation solution market.

Maintaining Organ Viability During Transport: A significant challenge in the organ preservation market is ensuring the

viability of organs during transport. Maintaining optimal preservation conditions, including temperature and nutrient flow, is critical to prevent organ damage, which requires constant innovation and improvement of preservation techniques.

Organ Preservation Solution Market Segmentation

By Solution Type

Viaspan

Custodiol-HTK (Histidine-Tryptophan-Ketoglutarate)

Renograf

Hypothermosol

Perfadex

Lifor

HBS (Hyperosmotic Blood Substitute) Solution

siRNA (Small Interfering RNA) Transplant Solutions

Other Solution Types

By Organ Type

Kidneys

Liver

Lung

Heart

Other Organ Types

By Technique

Static Cold Storage (SCS) Technique

Hypothermic Machine Perfusion

Other Techniques

Key Companies Analysed

Bristol-Myers Squibb Company

Baxter International Inc.

Teva Pharmaceutical Industries Ltd.

Accord Healthcare

BioLife Solutions Inc.

Lifeline Scientific

TransMedics Group Inc.

XVIVO Perfusion AB

Organ Recovery Systems Inc.

Bridge to Life Ltd.

Paragonix Technologies Inc.

OrganOx Limited

BioTime Inc.

Shanghai Genext Pharmaceutical Technology

21st Century Medicine

Institut Georges Lopez

Carnamedica

Global Transplant Solutions

Preservation Solutions Inc.

Essential Pharmaceuticals LLC

Dr. Franz K?hler Chemie GmbH

Advanced Organ Preservation Solutions (OPSL Group)

Vascular Perfusion Solutions Inc.

Transplant Biomedicals SL

Claris Lifesciences Limited

Organ Preservation Solution Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modeling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behavior are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

Organ Preservation Solution Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks,

profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption.

Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

Countries Covered

North America — Organ Preservation Solution market data and outlook to 2034

United States

Canada

Mexico

Europe — Organ Preservation Solution market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Organ Preservation Solution market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Organ Preservation Solution market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Organ Preservation Solution market data and outlook to 2034

Brazil

Argentina

Chile

Peru

** We can include data and analysis of additional countries on demand.*

Research Methodology

This study combines primary inputs from industry experts across the Organ Preservation Solution value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

Key Questions Addressed

What is the current and forecast market size of the Organ Preservation Solution industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

Your Key Takeaways from the Organ Preservation Solution Market Report

Global Organ Preservation Solution market size and growth projections (CAGR),

2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Organ Preservation Solution trade, costs, and supply chains

Organ Preservation Solution market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Organ Preservation Solution market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Organ Preservation Solution market trends, drivers, restraints, and opportunities

Porter's Five Forces analysis, technological developments, and Organ Preservation Solution supply chain analysis

Organ Preservation Solution trade analysis, Organ Preservation Solution market price analysis, and Organ Preservation Solution supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Organ Preservation Solution market news and developments

Additional Support

With the purchase of this report, you will receive

An updated PDF report and an MS Excel data workbook containing all market tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

Complimentary report update to incorporate the latest available data and the impact of recent market developments.

** The updated report will be delivered within 3 working days*

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