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Organ Preservation Market Forecasts to 2032 – Global Analysis By Preservation Method (Static Cold Storage (SCS), Cryopreservation & Vitrification, Hypothermic Machine Perfusion (HMP), Subnormothermic Perfusion, and Normothermic Machine Perfusion (NMP)), Organ Type, Solution Type, Equipment Type, Distribution Channel, End User and By Geography

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Abstracts

According to Stratistics MRC, the Global Organ Preservation Market is accounted for $298.11 million in 2025 and is expected to reach $552.00 million by 2032 growing at a CAGR of 9.2% during the forecast period. Organ preservation is the practice of keeping donated organs functional and healthy outside the body before they are transplanted. It uses precise cooling methods, preservation fluids, and innovative technologies to reduce cellular damage and delay metabolic decline. These techniques help critical organs including kidneys, livers, hearts, and lungs remain in good condition for longer periods, increasing their success in transplantation procedures and enhancing survival rates for patients in need.

According to the U.S. Census Bureau, it is projected that 20% of the U.S. population will be aged 65 and older by 2024, leading to a higher incidence of age-related diseases necessitating organ transplants.

Market Dynamics:

Driver:

Rising prevalence of chronic diseases

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Chronic illnesses including heart disease, liver damage, and diabetes are becoming more common globally, fueling demand for organ preservation technologies. With more individuals reaching critical stages of organ failure, transplantation needs are increasing significantly. This has intensified the focus on maintaining donor organ viability for longer durations. Enhanced medical screening is enabling earlier detection of organ decline, pushing more patients toward transplant pathways. Rising lifestyle-related conditions are simultaneously adding pressure on healthcare systems. Consequently, the surge in chronic diseases is strongly propelling the organ preservation market.

Restraint:

Critical shortage of viable donor organs

While transplant requirements continue to escalate, organ donation remains comparatively low. A large number of organs are discarded because they fail to meet viability standards upon retrieval. This limitation reduces the number of successful transplant surgeries and slows technology uptake. Many countries still experience substantial gaps in donor contributions. Thus, the limited availability of transplant-ready organs continues to hinder overall market progress.

Opportunity:

Development of long-term preservation methods

The emergence of methods capable of maintaining organs for extended durations is opening strong prospects for the market. Technologies such as machine perfusion and advanced cryogenic storage are redefining preservation standards. These solutions can enlarge the pool of organs deemed suitable for transplantation. Both private companies and research institutions are prioritizing breakthroughs in this field. Enhanced preservation times support better transportation and coordination across transplant networks. As a result, long-term preservation technologies represent a key driver of future expansion.

Threat:

Competition from alternative treatments

Alternative therapies are increasingly influencing the market by reducing the need for

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preserved donor organs. Regenerative medicine solutions, including tissue engineering, are providing new pathways for treatment. Artificial organ development is continuing to advance at a rapid pace. Such innovations may eventually decrease transplant requirements in several disease areas. Patients and clinicians are gradually exploring less invasive treatment choices. Thus, the availability of substitutional technologies may limit future market growth.

Covid-19 Impact:

The pandemic caused major interruptions in transplant operations and donor logistics. Numerous centers halted surgeries to prioritize critical COVID-19 cases. These disruptions also created gaps in the procurement of preservation supplies. At the same time, the situation emphasized the importance of reliable preservation practices. This resulted in accelerated development of advanced, flexible preservation tools. As healthcare systems stabilize, the market is experiencing renewed momentum.

The static cold storage (SCS) segment is expected to be the largest during the forecast period

The static cold storage (SCS) segment is expected to account for the largest market share during the forecast period, due to its proven success and widespread usage. It continues to serve as the primary method for preserving major organs globally. Affordability and accessibility make it a practical choice for numerous healthcare settings. Its straightforward application supports consistent use among medical practitioners. New formulations of preservation fluids are strengthening its performance.

The research & academic institutes segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the research & academic institutes segment is predicted to witness the highest growth rate, due to their focus on technological advancement. Rising investments in laboratory-based preservation innovations are supporting expansion. These organizations are at the forefront of evaluating and refining new preservation tools. Their work strengthens the foundation for commercial breakthroughs in the sector. Partnerships with industry leaders further enhance development pipelines.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest

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market share, due to its well-established medical systems. The region performs a large number of organ transplants each year. Public and private initiatives are actively promoting organ donation. Research and development activities related to preservation technologies are particularly strong. Supportive coverage policies make advanced technologies more accessible.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR, owing to expanding medical capabilities. Greater public education on organ donation is enhancing transplant readiness. Investments in modern equipment and preservation tools are increasing across several nations. The region faces rising cases of organ-related diseases, which drive market needs. Supportive government policies are helping accelerate technology adoption. Hence, Asia Pacific is set to achieve the highest growth rate.

Key players in the market

Some of the key players in Organ Preservation Market include TransMed, XVIVO Perf, OrganOx Lim, Getinge A, Organ Rec, CryoLife I, BioLife So, Cryoport S, Terumo Co, Dr. Franz K, 21st Centu, Vascular P, Waters Me, Lifeline S, and Preservat.

Key Developments:

In October 2025, OrganOx Ltd. announced the completion of its acquisition by Terumo Corporation, following satisfaction of all customary regulatory and closing conditions. OrganOx is now a wholly owned subsidiary of Terumo, positioning the company to unlock new opportunities to evolve its technology and reach more patients worldwide.

In September 2024, XVIVO Perfusion AB has entered into an agreement to acquire the transplant clinical workflow automation business, which includes, among other things, the development and distribution of the FlowHawkTM software platform, from Healthtech Solutions Inc. dba OmniLife. Organ transplantation is a complex, life-dependent process where flawless communication, both internal and external, is critical for transplant centers and the transplant ecosystem.

Preservation Methods Covered:

Static Cold Storage (SCS)

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Cryopreservation & Vitrification

Hypothermic Machine Perfusion (HMP)

Subnormothermic Perfusion

Normothermic Machine Perfusion (NMP)

Organ Types Covered:

Kidney

Cornea

Liver

Pancreas

Heart

Lung

Other Tissues

Solution Types Covered:

University of Wisconsin (UW) Solution

Perfadex & Other Lungs Solutions

Custodiol HTK

Celsior Solution

Organ-Specific Specialized Solutions

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Equipment Types Covered:

- Organ Transport Devices
- Perfusion Machines
- Cold Storage Containers
- Portable Organ Care Systems

Distribution Channels Covered:

- Direct Tender
- Retail/Wholesale
- Online

End Users Covered:

- Hospitals & Transplant Centers
- Organ Banks & Tissue Banks
- Research & Academic Institutes
- Biotech & Pharma Companies
- Other End Users

Regions Covered:

- North America
  - US

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- Canada
- Mexico

Europe

- Germany
- UK
- Italy
- France
- Spain
- Rest of Europe

Asia Pacific

- Japan
- China
- India
- Australia
- New Zealand
- South Korea
- Rest of Asia Pacific

South America

- Argentina
- Brazil

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Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:
- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

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SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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