

Organ Preservation Solutions Market Forecasts to 2030 – Global Analysis By Organ Type (Kidneys, Liver, Heart, Lungs, Pancreas and Other Organ Types), Solution Type, Distribution Channel, Application and By Geography

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Abstracts

According to Statistics MRC, the Global Organ Preservation Solutions Market is accounted for \$273.0 million in 2024 and is expected to reach \$421.3 million by 2030 growing at a CAGR of 7.5% during the forecast period. Organ preservation solutions are specialized fluids designed to maintain the viability and function of organs during the period between their removal from a donor and transplantation into a recipient. These solutions help prevent cellular damage, reduce metabolic activity, and protect tissues from ischemic injury, ensuring that the organ remains suitable for transplantation. They are critical in preserving the organ's structure and function for extended periods, typically by cooling the organ and preventing biochemical processes that could lead to organ deterioration.

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:

Increasing incidence of organ failure

The increasing incidence of organ failure, driven by factors such as aging populations,

chronic diseases, and lifestyle-related health issues, has significantly boosted the demand for organ transplantation. This, in turn, has fueled the growth of the organ preservation solutions market. As more organs are needed for transplantation, the importance of preserving organ viability for longer durations has led to advancements in preservation technologies and solutions, contributing to market expansion.

Restraint:

Limited availability of organs

The limited availability of organs in the market poses significant challenges, including increased organ transplant waiting times and heightened risks for patients in need. This scarcity leads to a reliance on suboptimal preservation methods, which may reduce organ viability and transplant success rates. Additionally, the shortage contributes to ethical concerns, as demand far exceeds supply, forcing healthcare systems to prioritize patients based on criteria, often leaving vulnerable groups at a disadvantage.

Opportunity:

Growing geriatric population

The growing geriatric population is significantly driving the demand for organ preservation solutions. As the elderly are more prone to organ-related health issues and require organ transplants, the need for effective preservation methods has surged. This demographic shift is spurring advancements in organ preservation technologies, ensuring longer viability and better outcomes for organ transplants. The increasing incidence of age-related diseases and the need for transplantation solutions are key growth factors in this market.

Threat:

High cost of procedures

The high cost of procedures in the market can create significant barriers to accessibility and affordability, particularly in low-resource settings. These expenses may limit the availability of advanced preservation technologies, hindering the timely transport and transplantation of organs. As a result, the success rates of organ transplants could decline, and the overall efficiency of organ donation systems may be compromised, leading to prolonged waiting times and increased mortality rates.

Covid-19 Impact:

The COVID-19 pandemic significantly disrupted the market by delaying elective surgeries and reducing organ donations due to health and safety concerns. Hospitals faced resource shortages, and transportation of organs was hindered by lockdowns and travel restrictions. These challenges led to a backlog in transplants, affecting patient outcomes and reducing the overall demand for preservation solutions. Furthermore, the pandemic strained the supply chain for these critical medical products.

The organ transplantation segment is expected to be the largest during the forecast period

The organ transplantation segment is anticipated to account for the largest market share during the projection period. Effective organ preservation is vital for maintaining organ viability during transportation, ensuring successful transplants. As the number of organ donors grows, the need for innovative preservation solutions intensifies, especially for high-demand organs like kidneys, livers, and hearts. The market's growth is closely tied to advancements in preservation methods that enhance transplant success rates and organ longevity.

The biopreservation segment is expected to have the highest CAGR during the forecast period

The biopreservation segment is expected to have the highest CAGR during the extrapolated period. This approach involves cryopreservation or hypothermic preservation techniques, which protect organs from damage caused by freezing or low temperatures. Biopreservation ensures better outcomes in organ transplantation by prolonging the shelf life of organs, reducing ischemic damage, and improving transplant success rates. Its growing adoption drives innovation and market growth in organ preservation technologies.

Region with largest share:

North America region is anticipated to account for the largest market share during the forecast period. The region benefits from robust research and development in preservation technologies, including hypothermic and normothermic techniques. Government initiatives and funding for organ transplantation further support market growth. North America's high demand for efficient preservation solutions is driven by

the need to enhance transplant success rates and reduce organ rejection.

Region with highest CAGR:

Asia Pacific is expected to register the highest growth rate over the forecast period due to the increasing demand for organ transplants. The demand for organ transplants is increasing due to the rising prevalence of organ failure and chronic diseases like diabetes and heart disease. Additionally, the development of advanced preservation methods, such as machine perfusion and cold storage solutions, has led to improved organ viability during transportation and storage.

Key players in the market

Some of the key players in Organ Preservation Solutions market include Thermo Fisher Scientific, Merck, Fisher Scientific, TSE Systems, Sorin Group, Eurobio Scientific, Baxter International, Medtronic, Teva Pharmaceuticals, Asahi Kasei Medical, Hemonetics, Organ Recovery Systems, TransMedics, Perfusion Solutions and Stemcell Technologies.

Key Developments:

In August 2024, Paragonix Technologies has acquired by Getinge, one of the world's leading medical technology companies. A global industry leader in organ transplantation, Paragonix is recognized for the advanced, FDA-approved organ transportation solutions it provides to safeguard the secure transportation of donor organs.

In June 2024, Devyser Diagnostics AB (publ) announced that the company has expanded its exclusive collaboration and distribution agreement with Thermo Fisher Scientific, giving Thermo Fisher exclusive rights to commercialize, under combined brands, Devyser's post-transplant portfolio of NGS products globally.

Organ Types Covered:

Kidneys

Liver

Heart

Lungs

Pancreas

Other Organ Types

Solution Types Covered:

Static Preservation Solutions

Dynamic Preservation Solutions

Distribution Channels Covered:

Direct Sales

Distributors/Wholesalers

Online Sales & E-Commerce

Applications Covered:

Organ Transplantation

Medical Research & Development

Pharmaceutical Testing

Biopreservation

Clinical and Diagnostic

Organ Recovery & Transportation

Other Applications

Regions Covered:

North America

US

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

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 2022, 2023, 2024, 2026, and 2030
- 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)

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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