

Plasma Expander Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Product Type (Dextran, Hydroxyethyl Starch, Human Albumin, PEGylated Albumin, Polyvinylpyrrolidone (PVP), Gelatin), By End User (Online Pharmacies, Retail Pharmacies, Hospital Pharmacies), By Region and Competition, 2020-2030F

<https://marketpublishers.com/r/P0A25CDEB9A2EN.html>

Date: February 2025

Pages: 186

Price: US\$ 4,500.00 (Single User License)

ID: P0A25CDEB9A2EN

Abstracts

The Global Plasma Expander Market was valued at USD 7.32 billion in 2024 and is projected to grow to USD 15.03 billion by 2030, with a CAGR of 12.71%. This market is poised for significant expansion, driven by increasing healthcare demands for volume replacement in critical conditions such as trauma, surgery, burns, and shock. Plasma expanders, vital intravenous solutions, help to restore blood volume and are essential in treating severe dehydration and blood loss. Additionally, the rising prevalence of chronic conditions like heart failure, liver disease, and kidney disorders is further accelerating the demand for these products, as they play a crucial role in managing fluid balance and maintaining cardiovascular health for critically ill patients. The growing frequency of surgeries and intensive medical procedures is also fueling market growth.

Several factors are contributing to the rapid progress of the plasma expander market. The increasing adoption of synthetic plasma expanders, such as Hydroxyethyl Starch (HES) and other synthetic colloids, is driving growth due to their effectiveness and cost-efficiency compared to human albumin. Technological advancements in plasma expander manufacturing and formulation are improving their safety and efficacy, enhancing their accessibility and reliability for healthcare providers. The shift toward advanced medical technologies and a heightened focus on critical care management globally is also encouraging investments in plasma expanders, which are crucial in

emergency and intensive care settings. Demand for safer and more effective treatment options is prompting innovation in this field, with new formulations addressing challenges related to side effects and safety profiles.

However, the market faces several challenges that may affect its growth. A key concern is the potential side effects of certain synthetic plasma expanders, particularly Hydroxyethyl Starch (HES), which has been linked to kidney damage in some instances. Regulatory challenges related to the approval of new products and complex clinical trials can delay the introduction of new therapies. The high cost of plasma-derived products limits accessibility in low-resource settings, and reliance on human-derived products, such as human albumin, raises concerns about supply shortages, ethical considerations, and the risk of pathogen transmission. To address these challenges, the market must focus on developing safer and more effective alternatives while improving accessibility to meet the growing demand for plasma expander treatments globally.

Key Market Drivers

Technological Advancements:

Researchers are actively working on developing new formulations of plasma expanders to improve volume-expanding properties while reducing side effects like coagulation disturbances and kidney injury. Advances are also being made in the creation of synthetic plasma expanders that do not rely on human or animal plasma, reducing the risk of infections and immunological reactions. The development of biodegradable plasma expanders, which break down naturally in the body over time, is also underway. Additionally, nanotechnology is being used to enhance the properties of plasma expanders by improving drug delivery, circulation time, and tissue targeting. Technological innovations have led to improved safety profiles, longer shelf life, and more accurate real-time monitoring of patient responses to plasma expanders. In India, for example, the Department of Science and Technology (DST) and the Central Institute of Petrochemicals Engineering & Technology (CIPET) have been pivotal in promoting research and development in this area, further contributing to the advancement of plasma expanders.

Key Market Challenges

Cost Containment:

Healthcare systems globally face budget constraints, leading to cost-containment measures that may impact the purchasing of plasma expanders. The plasma expander market is highly competitive, with multiple manufacturers offering a range of products, which may result in price pressure and reduced profit margins. Additionally, reimbursement policies from government and private insurers can impact the financial viability of plasma expander products, and economic downturns can shift preferences toward cost-effective alternatives. The high costs associated with research, development, and regulatory compliance also complicate the market dynamics, requiring manufacturers to balance affordability with profitability. Efficient supply chain management is essential for reducing costs related to production, distribution, and storage.

Key Market Trends

Shift Toward Plasma Expanders Over Blood Transfusions:

The preference for plasma expanders over blood transfusions is a major driver for market growth. While blood transfusions have traditionally been used to treat significant blood loss, they carry risks such as immunological reactions, infections, blood type mismatches, and allergic responses. Plasma expanders, by mimicking human plasma, offer a safer alternative as they do not carry the same risks of transfusion reactions and infections. They are easier to store, have a longer shelf life, and are more cost-effective than blood transfusions, which involve high costs for blood collection, screening, and storage. As healthcare systems focus on improving trauma care efficiency, plasma expanders are increasingly becoming the preferred method for volume restoration in critical patients, particularly in emergency settings and remote areas with limited access to blood banks.

Key Market Players

Baxter International Inc.

Fresenius SE & Co. KGaA

CSL Limited

Grifols, S.A.

B. Braun Melsungen AG

Hikma Pharmaceuticals PLC

Octapharma AG

Kedrion S.p.A.

Shanghai RAAS Blood Products Co., Ltd.

Terumo Corporation

Report Scope:

This report segments the Global Plasma Expander Market by product type, end-user, and region, highlighting industry trends and market dynamics.

Product Type Segmentation:

Dextran

Hydroxyethyl Starch

Human Albumin

PEGylated Albumin

Polyvinylpyrrolidone (PVP)

Gelatin

End-User Segmentation:

Online Pharmacies

Retail Pharmacies

Hospital Pharmacies

Regional Segmentation:

North America

Asia-Pacific

Europe

South America

Middle East & Africa

Competitive Landscape:

Detailed profiles of key market players are included in the report.

Available Customizations:

TechSci Research offers customization options for the Global Plasma Expander Market report, including additional market player analysis and other specific insights tailored to company needs.

Additional company analysis and profiling (up to five additional market players).

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