

Global Artificial Blood Substitute Market Growth (Status and Outlook) 2025-2031

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Abstracts

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The global Artificial Blood Substitute market size is predicted to grow from US\$ million in 2025 to US\$ million in 2031; it is expected to grow at a CAGR of 23.2% from 2025 to 2031.

Artificial blood refers to artificial blood cells and their functional substitutes. Its function, as the name suggests, is to replace real human blood to meet people's demand for blood and make up for the current blood shortage.

Artificial blood substitutes are used as oxygen therapy agents for emergency resuscitation and disease treatment. They have very important practical significance in developing countries and field hospitals that lack blood and urgently need blood transfusion, lack refrigeration equipment, and even on the battlefield. At the same time they do have great potential in reducing the spread of infectious diseases and providing new options for religious people who refuse blood transfusions.

Despite the huge application prospects, these artificial blood products all face some common problems. In addition to the safety and efficacy to be verified by clinical trials, the current production scale still needs to be greatly increased, and the production cost needs to be greatly reduced to meet the future demand for artificial blood .

LPI (LP Information)' newest research report, the "Artificial Blood Substitute Industry Forecast" looks at past sales and reviews total world Artificial Blood Substitute sales in 2024, providing a comprehensive analysis by region and market sector of projected Artificial Blood Substitute sales for 2025 through 2031. With Artificial Blood Substitute

sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Artificial Blood Substitute industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Artificial Blood Substitute 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 Artificial Blood Substitute.

This report presents a comprehensive overview, market shares, and growth opportunities of Artificial Blood Substitute market by product type, application, key players and key regions and countries.

Segmentation by Type:

Perfluorocarbon-based Oxygen Carrier (PFBOC)

Hemoglobin-based Oxygen Carrier (HBOC)

Segmentation by Application:

Military

Civil

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 analyzing the company's coverage, product portfolio, its market penetration.

Aurum Biosciences Ltd.

HEMARINA SA

HbO2 Therapeutics

KaloCyte Inc.

SpheriTech Ltd.

NuvOx Pharma

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