

# Global Artificial Blood Substitute Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Artificial Blood Substitute market size is expected to reach \$ 46.61 million by 2032, rising at a market growth of 17.2% CAGR during the forecast period (2026-2032).

Artificial Blood Substitute refers to a class of biomedical products designed to partially replicate the essential physiological functions of human blood—primarily oxygen transport and delivery—without relying on donated human blood. These products are intended to provide temporary or supportive oxygen-carrying capacity in situations where conventional blood transfusion is unavailable, impractical, or contraindicated.

The market for artificial blood substitutes is primarily driven by increasing medical demand and advancements in technology. On a global scale, the demand for blood transfusions continues to rise, while the availability of suitable blood is often constrained by challenges such as blood type compatibility, limited shelf life, and underdeveloped blood supply systems. Artificial blood substitutes can play a vital role in emergency care, mass casualty incidents, and battlefield medicine. In addition, the accelerating aging population, along with the growing number of major surgeries and trauma cases, has created strong clinical demand for safe, long-lasting, and universally compatible alternatives. Advances in bioengineering, nanotechnology, and synthetic biology are also fostering the development of more efficient and stable products. Furthermore, concerns over transfusion-related infections and low blood donation rates in certain regions are encouraging healthcare systems to prioritize artificial blood solutions, collectively driving market growth.

The global key companies of Artificial Blood Substitute include Perftoran, HbO2 Therapeutics, Hemarina, Aurum Biosciences Ltd., KaloCyte Inc., Prolong Pharmaceuticals, NuvOx Pharma, etc. In 2025, the global two largest players hold a

share approximately 92% in terms of revenue.

This report studies the global Artificial Blood Substitute demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Artificial Blood Substitute, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Artificial Blood Substitute that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Artificial Blood Substitute total market, 2021-2032, (USD Million)

Global Artificial Blood Substitute total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Artificial Blood Substitute total market, key domestic companies, and share, (USD Million)

Global Artificial Blood Substitute revenue by player, revenue and market share 2021-2026, (USD Million)

Global Artificial Blood Substitute total market by Type, CAGR, 2021-2032, (USD Million)

Global Artificial Blood Substitute total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Artificial Blood Substitute market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Perftoran, HbO2 Therapeutics, Aurum Biosciences Ltd., Hemarina, KaloCyte Inc., Prolong Pharmaceuticals, NuvOx Pharma, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Artificial Blood Substitute market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years

2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Artificial Blood Substitute Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Artificial Blood Substitute Market, Segmentation by Type:

Perfluorocarbon-based Oxygen Carrier (PFBOC)

Hemoglobin-based Oxygen Carrier (HBOC)

Global Artificial Blood Substitute Market, Segmentation by Stage:

Preclinical Stage

Clinical Trial Stage

Commercialization

Global Artificial Blood Substitute Market, Segmentation by Product Form:

Solution-Based

Emulsion-Based

Others

Global Artificial Blood Substitute Market, Segmentation by Application:

Military

Civil

Companies Profiled:

Perftoran

HbO2 Therapeutics

Aurum Biosciences Ltd.

Hemarina

KaloCyte Inc.

Prolong Pharmaceuticals

NuvOx Pharma

### **Key Questions Answered**

1. How big is the global Artificial Blood Substitute market?
2. What is the demand of the global Artificial Blood Substitute market?
3. What is the year over year growth of the global Artificial Blood Substitute market?
4. What is the total value of the global Artificial Blood Substitute market?
5. Who are the Major Players in the global Artificial Blood Substitute market?
6. What are the growth factors driving the market demand?

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