

# **Artificial Blood Substitutes Market Size, Trends, Analysis, and Outlook By Product (Perfluorocarbon (PFCs), Hemoglobin-Based Oxygen Carriers (HBOCs), By Source (Human Blood, Animal Blood, Microorganism Based Recombinant HB, Synthetic Polymers and Stem Cells), By Application (Cardiovascular Diseases, Malignant Neoplasma, Injuries, Neonatal Conditions, Organ Transplant and Maternal Condition), By End-User (Hospital and Clinics, Blood Banks, Others), by Region, Country, Segment, and Companies, 2024-2030**

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## **Abstracts**

The global Artificial Blood Substitutes market size is poised to register 25.73% growth (CAGR) from 2024 to 2030, presenting significant growth prospects for companies operating in the industry. The industry study analyzes the global Artificial Blood Substitutes market By Product (Perfluorocarbon (PFCs), Hemoglobin-Based Oxygen Carriers (HBOCs), By Source (Human Blood, Animal Blood, Microorganism Based Recombinant HB, Synthetic Polymers and Stem Cells), By Application (Cardiovascular Diseases, Malignant Neoplasma, Injuries, Neonatal Conditions, Organ Transplant and Maternal Condition), By End-User (Hospital and Clinics, Blood Banks, Others).

The future of artificial blood substitutes is shaped by advancements in hemoglobin-based oxygen carriers, perfluorocarbon emulsions, and oxygen-carrying polymers aimed at improving oxygen delivery and tissue perfusion in critical care and transfusion medicine. Key trends include the development of next-generation blood substitutes with

enhanced oxygen affinity, stability, and biocompatibility for prolonged circulation and tissue oxygenation, integration of synthetic oxygen carriers with blood components such as platelets and clotting factors to mitigate side effects and enhance hemostasis, and customization of product formulations and administration protocols to address specific clinical indications and patient populations. These advancements offer new possibilities for resuscitation, trauma management, and surgical interventions, reducing the reliance on donor blood and improving outcomes in emergency and elective medical procedures..

## Artificial Blood Substitutes Market Drivers, Trends, Opportunities, and Growth Opportunities

This comprehensive study discusses the latest trends and the most pressing challenges for industry players and investors. The Artificial Blood Substitutes market research analyses the global market trends, key drivers, challenges, and opportunities in the industry. In addition, the latest Future of Artificial Blood Substitutes survey report provides the market size outlook across types, applications, and other segments across the world and regions. It provides data-driven insights and actionable recommendations for companies in the Artificial Blood Substitutes industry.

## Key market trends defining the global Artificial Blood Substitutes demand in 2024 and Beyond

The industry continues to remain an attractive hub for opportunities for both domestic and global vendors. As the market evolves, factors such as emerging market dynamics, demand from end-user sectors, a growing patient base, changes in consumption patterns, and widening distribution channels continue to play a major role.

## Artificial Blood Substitutes Market Segmentation- Industry Share, Market Size, and Outlook to 2030

The Artificial Blood Substitutes industry comprises a wide range of segments and sub-segments. The rising demand for these product types and applications is supporting companies to increase their investment levels across niche segments. Accordingly, leading companies plan to generate a large share of their future revenue growth from expansion into these niche segments. The report presents the market size outlook across segments to support Artificial Blood Substitutes companies scaling up production in these sub-segments with a focus on expanding into emerging countries.

Key strategies adopted by companies within the Artificial Blood Substitutes industry

Leading Artificial Blood Substitutes companies are boosting investments to capitalize on untapped potential and future possibilities across niche market segments and surging demand conditions in key regions. Further, companies are leveraging advanced technologies to unlock opportunities and achieve operational excellence. The report provides key strategies opted for by the top 10 Artificial Blood Substitutes companies.

Artificial Blood Substitutes Market Study- Strategic Analysis Review

The Artificial Blood Substitutes market research report dives deep into the qualitative factors shaping the market, empowering you to make informed decisions-

**Industry Dynamics:** Porter's Five Forces analysis to understand bargaining power, competitive rivalry, and threats that impact long-term strategy formulation.

**Strategic Insights:** Provides valuable perspectives on key players and their approaches based on comprehensive strategy analysis.

**Internal Strengths and Weaknesses:** Develop targeted strategies to leverage strengths, address weaknesses, and capitalize on market opportunities.

**Future Possibilities:** Prepare for diverse outcomes with in-depth scenario analysis. Explore potential market disruptions, technology advancements, and economic changes.

Artificial Blood Substitutes Market Size Outlook- Historic and Forecast Revenue in Three Cases

The Artificial Blood Substitutes industry report provides a detailed analysis and outlook of revenue generated by companies from 2018 to 2023. Further, with actual data for 2023, the report forecasts the market size outlook from 2024 to 2030 in three case scenarios- low case, reference case, and high case scenarios.

Artificial Blood Substitutes Country Analysis and Revenue Outlook to 2030

The report analyses 22 countries worldwide including the key driving forces and market

size outlook from 2021 to 2030. In addition, region analysis across Asia Pacific, Europe, the Middle East, Africa, North America, and South America is included in the study. For each of the six regions, the market size outlook by segments is forecast for 2030.

**North America Artificial Blood Substitutes Market Size Outlook- Companies plan for focused investments in a changing environment**

The US continues to remain the market leader in North America, driven by a large consumer base, the presence of well-established providers, and a strong end-user industry demand. Leading companies focus on new product launches in the changing environment. The US economy is expected to grow in 2024 (around 2.2% growth in 2024), potentially driving demand for various Artificial Blood Substitutes market segments. Similarly, Strong end-user demand is encouraging Canadian Artificial Blood Substitutes companies to invest in niche segments. Further, as Mexico continues to strengthen its trade relations and invest in technological advancements, the Mexico Artificial Blood Substitutes market is expected to experience significant expansion, offering lucrative opportunities for both domestic and international stakeholders.

**Europe Artificial Blood Substitutes Market Size Outlook-Companies investing in assessing consumers, categories, competitors, and capabilities**

The German industry remains the major market for companies in the European Artificial Blood Substitutes industry with consumers in Germany, France, the UK, Spain, Italy, and others anticipated to register a steady demand throughout the forecast period, driving the overall market prospects. In addition, the proactive approach of businesses in identifying and leveraging new growth prospects positions the European Artificial Blood Substitutes market for an upward trajectory, fostering both domestic and international interest. Leading brands operating in the industry are emphasizing effective marketing strategies, innovative product offerings, and a keen understanding of consumer preferences.

**Asia Pacific Artificial Blood Substitutes Market Size Outlook- an attractive hub for opportunities for both local and global companies**

The increasing prevalence of indications, robust healthcare expenditure, and increasing investments in healthcare infrastructure drive the demand for Artificial Blood Substitutes in Asia Pacific. In particular, China, India, and South East Asian Artificial Blood Substitutes markets present a compelling outlook for 2030, acting as a magnet for both domestic and multinational manufacturers seeking growth opportunities. Similarly, with

a burgeoning population and a rising middle class, India offers a vast consumer market. Japanese and Korean companies are quickly aligning their strategies to navigate changes, explore new markets, and enhance their competitive edge. Our report utilizes in-depth interviews with industry experts and comprehensive data analysis to provide a comprehensive outlook of 6 major markets in the region.

**Latin America Artificial Blood Substitutes Market Size Outlook-** Continued urbanization and rising income levels

Rising income levels contribute to greater purchasing power among consumers, spurring consumption and creating opportunities for market expansion. Continued urbanization and rising income levels are expected to sustainably drive consumption growth in the medium to long term.

**Middle East and Africa Artificial Blood Substitutes Market Size Outlook-** continues its upward trajectory across segments

Robust demand from Middle Eastern countries including Saudi Arabia, the UAE, Qatar, Kuwait, and other GCC countries supports the overall Middle East Artificial Blood Substitutes market potential. Fueled by increasing healthcare expenditure of individuals, growing population, and high prevalence across a few markets drives the demand for Artificial Blood Substitutes.

**Artificial Blood Substitutes Market Company Profiles**

The global Artificial Blood Substitutes market is characterized by intense competitive conditions with leading companies opting for aggressive marketing to gain market shares. The report presents business descriptions, SWOT analysis, growth strategies, and financial profiles. Leading companies included in the study are Aurum Biosciences, Boston Pharmaceuticals, Centrum Medyczne VisusMed, European Medicines Agency, Hemarina Inc, Hemoglobin Oxygen Therapeutics LLC, KaloCyte Inc, NanoBlood LLC, NuvOx Pharma, OPK Biotech Inc, Oxyvita Inc, Prolong Pharmaceuticals Llc, SpheriTech Ltd.

**Recent Artificial Blood Substitutes Market Developments**

The global Artificial Blood Substitutes market study presents recent market news and developments including new product launches, mergers, acquisitions, expansions, product approvals, and other updates in the industry.

## Artificial Blood Substitutes Market Report Scope

Parameters: Revenue, Volume Price

Study Period: 2023 (Base Year); 2018- 2023 (Historic Period); 2024- 2030 (Forecast Period)

Currency: USD; (Upon request, can be provided in Euro, JPY, GBP, and other Local Currency)

### Qualitative Analysis

Pricing Analysis

Value Chain Analysis

SWOT Profile

Market Dynamics- Trends, Drivers, Challenges

Porter's Five Forces Analysis

Macroeconomic Impact Analysis

Case Scenarios- Low, Base, High

### Market Segmentation:

By Type

Stationary 3D and 4D Ultrasound Devices

Portable 3D and 4D Ultrasound Devices

By Display

Color Ultrasound

B/W Ultrasound

By Portability

Trolley or Cart-Based Ultrasound Systems

Compact/Handheld Ultrasound Systems

Point-of-Pare (PoC) Ultrasound Systems

By Application

Radiology or General Imaging

Obstetrics or Gynecology

Cardiology

Urology

Vascular

Orthopedic and Musculoskeletal

Pain Management

Others

By End-User

Hospitals

Surgical Centers and Diagnostic Centers

Maternity Centers

Ambulatory Care Centers

Research and Academia

Others

Geographical Segmentation:

North America (3 markets)

Europe (6 markets)

Asia Pacific (6 markets)

Latin America (3 markets)

Middle East Africa (5 markets)

Companies

Aurum Biosciences

Boston Pharmaceuticals

Centrum Medyczne VisusMed

European Medicines Agency

Hemarina Inc

Hemoglobin Oxygen Therapeutics LLC

KaloCyte Inc

NanoBlood LLC

NuvOx Pharma

OPK Biotech Inc



Oxyvita Inc

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SpheriTech Ltd

Formats Available: Excel, PDF, and PPT

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B/W Ultrasound

By Portability

Trolley or Cart-Based Ultrasound Systems

Compact/Handheld Ultrasound Systems

Point-of-Pare (PoC) Ultrasound Systems

By Application

Radiology or General Imaging

Obstetrics or Gynecology

Cardiology

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