

Blood Screening Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Technology (Nucleic Acid Amplification Test (NAT), ELISA, Chemiluminescence Immunoassay (CLIA) and Enzyme Immunoassay (EIA), Next Generation Sequencing (NGS), Western Blotting), By Product (Reagent, Instrument), By Region and Competition, 2019-2029F

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Abstracts

Global Blood Screening Market was valued at USD 2.52 Billion in 2023 and is anticipated to project steady growth in the forecast period with a CAGR of 5.25% through 2029. The global blood screening market plays a crucial role in ensuring the safety of blood transfusions and the early detection of infectious diseases. Blood screening is an essential step in the healthcare system, preventing the transmission of infections through donated blood and ensuring the overall health of both donors and recipients. With advancements in technology and a growing awareness of the importance of blood safety, the global blood screening market is witnessing significant growth. The increasing awareness about the importance of blood donation and the growing number of blood donation campaigns worldwide have led to a surge in blood donations. Consequently, there is an amplified need for efficient and reliable blood screening procedures to ensure the safety of both donors and recipients.

The global prevalence of infectious diseases, including HIV, hepatitis B and C, and syphilis, underscores the significance of rigorous blood screening. Advanced screening technologies aid in the early detection of these infections, preventing their transmission through blood transfusions. Continuous technological advancements have significantly

enhanced the efficiency and accuracy of blood screening processes. Nucleic acid testing (NAT), for instance, has become a gold standard for the detection of viral infections due to its high sensitivity and specificity. Stringent regulatory frameworks governing blood safety have compelled healthcare organizations to adopt state-of-the-art screening technologies. Compliance with these regulations is a driving force behind the adoption of advanced blood screening solutions.

Key Market Drivers

Rising Incidence of Infectious Diseases is Driving the Global Blood Screening Market.

In recent years, the world has witnessed a significant rise in the incidence of infectious diseases, triggering a surge in the demand for advanced diagnostic solutions. One of the critical components in combating the spread of these diseases is efficient blood screening. The global blood screening market has become a vital player in safeguarding public health by ensuring the safety of blood transfusions and donated blood products. Infectious diseases, ranging from HIV/AIDS and hepatitis to emerging threats like Zika and COVID-19, have underscored the importance of robust blood screening protocols. With globalization facilitating increased movement of people and goods across borders, the risk of infectious diseases spreading globally has intensified. Consequently, the demand for stringent blood screening measures has become paramount to prevent the transmission of infections through blood transfusions and blood-derived products. The prevalence of infectious diseases has been steadily rising, fueled by factors such as urbanization, population growth, and lifestyle changes. As a result, the need for comprehensive blood screening to identify and eliminate potentially infectious blood units has become crucial.

Advances in technology have revolutionized blood screening techniques. Nucleic acid testing (NAT), serological testing, and molecular screening methods have become more sensitive and specific, enabling the detection of a broader range of infectious agents with higher accuracy. These innovations have significantly contributed to the market's growth. Regulatory bodies across the globe have implemented stringent standards to ensure the safety of blood and blood-derived products. Compliance with these regulations has become a driving force for the adoption of advanced blood screening technologies by blood banks, hospitals, and diagnostic laboratories. Growing awareness regarding the risks associated with transfusion-transmitted infections and the importance of blood safety has led to increased public demand for safe blood products. Additionally, governments and health organizations are actively promoting blood safety initiatives, further propelling the blood screening market forward. The

globalization of the blood supply chain has increased the complexity of ensuring blood safety. Blood components are often sourced from multiple regions, making it essential to implement standardized and efficient screening processes to maintain the integrity of the global blood supply.

Rising Healthcare Expenditure is Driving the Global Blood Screening Market

In recent years, the global healthcare landscape has witnessed a significant rise in expenditure, with a substantial portion allocated to diagnostic services and disease prevention. Among the various segments within the healthcare industry, the blood screening market has experienced substantial growth, propelled by increased healthcare spending. The intersection of advanced technology, rising awareness of blood-borne diseases, and the growing demand for preventive healthcare measures has positioned the blood screening market as a crucial component in the overall healthcare system. The shift towards preventive healthcare has become a global priority. Governments and healthcare organizations worldwide are increasingly investing in early detection and screening programs to identify and manage diseases at their nascent stages. Blood screening plays a pivotal role in these initiatives, allowing for the identification of various health conditions before they become more severe, thereby reducing the overall healthcare burden.

Advances in technology have revolutionized blood screening processes. Automated and high-throughput screening methods, including nucleic acid testing (NAT), enzyme immunoassay (EIA), and next-generation sequencing (NGS), have significantly improved the efficiency and accuracy of blood screening. These technological advancements, while enhancing diagnostic capabilities, have also led to increased adoption and contributed to the expansion of the blood screening market. The rising prevalence of blood-borne diseases, such as HIV, hepatitis, and various genetic disorders, has necessitated robust screening measures. Blood screening not only aids in the early detection of these diseases but also helps in preventing their transmission through blood transfusions or organ transplants. As the incidence of these diseases continues to rise, the demand for comprehensive blood screening solutions is escalating. The demographic shift towards an aging population has resulted in an increased incidence of chronic diseases. Elderly individuals often require regular monitoring and early detection of health issues, making blood screening an integral component of their healthcare regimen. The growing aging population worldwide is contributing to the overall expansion of the blood screening market. Governments and regulatory bodies are imposing more stringent standards on blood safety and transfusion medicine. Compliance with these regulations necessitates the

implementation of advanced blood screening technologies to ensure the quality and safety of blood products. This increased regulatory scrutiny has further fueled the adoption of innovative screening methods, driving market growth.

Key Market Challenges

Global Blood Shortages

The primary challenge faced by the blood screening market is the insufficient availability of safe blood. Many regions around the world struggle with low blood donation rates, leading to a perpetual shortage. This shortage not only affects the ability to meet the demand for blood transfusions but also hampers the efficiency of blood screening processes. Blood shortages are not evenly distributed globally. Some regions face chronic shortages, while others may have a surplus. This geographical imbalance creates challenges for the blood screening market to establish standardized processes and technologies that can be universally applied. Economic factors, coupled with societal beliefs and cultural practices, contribute to the reluctance of individuals to donate blood. Issues such as fear, misinformation, and lack of awareness often deter potential donors, exacerbating the global blood shortage crisis. The blood screening market operates within a complex regulatory framework to ensure the safety and quality of blood products. Adhering to evolving regulations can be challenging for both established and emerging players in the industry, impacting their ability to innovate and adapt swiftly. In certain regions, technological and infrastructure gaps pose challenges for implementing advanced blood screening technologies. Limited access to cutting-edge screening methods and equipment can compromise the efficacy of the blood screening process.

Key Market Trends

Technological Advancements

In the realm of healthcare, the Global Blood Screening Market is experiencing a transformative wave driven by unprecedented technological advancements. The integration of cutting-edge technologies is enhancing the efficiency, accuracy, and scope of blood screening processes, thereby revolutionizing healthcare practices worldwide. One of the primary technological trends reshaping blood screening is the increasing use of automation and robotics. Automated systems are streamlining the screening process, minimizing human errors, and significantly improving the speed at which tests are conducted. Robotics, with their precision and speed, are enhancing

sample handling and analysis, leading to quicker and more reliable results. These advancements not only increase the throughput of blood screening laboratories but also contribute to cost-effectiveness and resource optimization. The rise of molecular diagnostics and nucleic acid testing (NAT) has brought about a paradigm shift in blood screening. These technologies enable the detection of genetic material in blood samples, providing a more accurate and sensitive approach to identifying infectious diseases such as HIV, hepatitis, and others. Molecular diagnostics also play a crucial role in detecting emerging threats, ensuring the timely identification and containment of potential outbreaks. Next-generation sequencing has opened new frontiers in genomics and is increasingly being applied to blood screening. NGS allows for the rapid and comprehensive analysis of genetic material, offering insights into a wide range of genetic conditions and infectious agents. Its high throughput and ability to process multiple samples simultaneously make NGS a powerful tool in blood screening, particularly for rare diseases and personalized medicine.

Artificial intelligence and machine learning are making significant strides in healthcare, and blood screening is no exception. These technologies can analyze vast amounts of data, identify patterns, and enhance the interpretation of screening results. AI-driven algorithms can improve the accuracy of diagnoses, predict potential health risks, and optimize treatment strategies. Integrating AI and ML into blood screening processes not only improves efficiency but also contributes to more personalized and precise healthcare solutions. Advancements in point-of-care testing have brought diagnostics closer to patients, allowing for rapid screening without the need for extensive laboratory infrastructure. Portable devices equipped with advanced sensors and technologies enable real-time analysis of blood samples, providing immediate results at the patient's bedside. This not only facilitates faster decision-making by healthcare professionals but also enhances accessibility to screening in remote or resource-limited settings.

Segmental Insights

Product Insights

Based on Product, reagents emerged as the dominant player in the global market for Blood Screening in 2023. Reagent-based blood screening products are known for their high accuracy and sensitivity. The specificity of reagents ensures the detection of even low concentrations of pathogens, reducing the risk of false negatives and enhancing the overall reliability of screening results. Continuous advancements in reagent technologies have significantly improved their performance and efficiency. Cutting-edge innovations, such as nucleic acid testing (NAT) reagents, have revolutionized blood

screening by providing faster and more precise results. With an increasing emphasis on blood safety and the prevention of transfusion-transmitted infections, the demand for robust blood screening solutions has surged. Reagent products, with their proven track record of accuracy, have become the preferred choice for healthcare institutions and blood banks.

Regional Insights

North America emerged as the dominated region in the global blood screening market in 2023, holding the largest market share in terms of value. North America has been quick to adopt and implement cutting-edge technologies in blood screening. The region's laboratories and diagnostic centers have embraced automation, high-throughput screening, and advanced molecular techniques, enhancing the efficiency and accuracy of blood screening processes. The integration of next-generation sequencing, polymerase chain reaction (PCR), and other molecular diagnostic tools has allowed for the early detection of infectious diseases, genetic disorders, and other health conditions. The region's well-developed healthcare infrastructure has played a crucial role in propelling North America to the forefront of the blood screening market. The presence of state-of-the-art laboratories, research facilities, and a network of well-established healthcare providers has facilitated seamless collaboration between industry stakeholders. This infrastructure not only supports routine blood screenings but also enables swift responses to emerging health threats, reinforcing the region's dominance in global blood screening.

Key Market Players

Abbott Laboratories Inc.

Danaher Corporation (Beckman Coulter)

Becton Dickinson and Company

Bio-Rad Laboratories, Inc.

Hoffman-La Roche Ltd.

Grifols, S.A.

Ortho-Clinical Diagnostics, Inc.

Siemens Healthineers AG

Thermo Fisher Scientific, Inc.

SOFINA s.a (Biomerieux)

Report Scope:

In this report, the Global Blood Screening Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Blood Screening Market, By Technology:

Nucleic Acid Amplification Test (NAT)

ELISA

Chemiluminescence Immunoassay (CLIA) and Enzyme Immunoassay (EIA)

Next Generation Sequencing (NGS)

Western Blotting

Blood Screening Market, By Product:

Reagent

Instrument

Blood Screening Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Blood Screening Market.

Available Customizations:

Global Blood Screening market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

4. GLOBAL BLOOD SCREENING MARKET OUTLOOK

- 4.1. Market Size & Forecast
 - 4.1.1. By Value
- 4.2. Market Share & Forecast
 - 4.2.1. By Technology (Nucleic Acid Amplification Test (NAT), ELISA, Chemiluminescence Immunoassay (CLIA) and Enzyme Immunoassay (EIA), Next Generation Sequencing (NGS), Western Blotting)
 - 4.2.2. By Product (Reagent, Instrument)
 - 4.2.3. By Region
 - 4.2.4. By Company (2023)

4.3. Market Map

- 4.3.1. By Technology
- 4.3.2. By Product
- 4.3.3. By Region

5. ASIA PACIFIC BLOOD SCREENING MARKET OUTLOOK

5.1. Market Size & Forecast

- 5.1.1. By Value

5.2. Market Share & Forecast

- 5.2.1. By Technology
- 5.2.2. By Product
- 5.2.3. By Country

5.3. Asia Pacific: Country Analysis

5.3.1. China Blood Screening Market Outlook

- 5.3.1.1. Market Size & Forecast
 - 5.3.1.1.1. By Value
- 5.3.1.2. Market Share & Forecast
 - 5.3.1.2.1. By Technology
 - 5.3.1.2.2. By Product

5.3.2. India Blood Screening Market Outlook

- 5.3.2.1. Market Size & Forecast
 - 5.3.2.1.1. By Value
- 5.3.2.2. Market Share & Forecast
 - 5.3.2.2.1. By Technology
 - 5.3.2.2.2. By Product

5.3.3. Australia Blood Screening Market Outlook

- 5.3.3.1. Market Size & Forecast
 - 5.3.3.1.1. By Value
- 5.3.3.2. Market Share & Forecast
 - 5.3.3.2.1. By Technology
 - 5.3.3.2.2. By Product

5.3.4. Japan Blood Screening Market Outlook

- 5.3.4.1. Market Size & Forecast
 - 5.3.4.1.1. By Value
- 5.3.4.2. Market Share & Forecast
 - 5.3.4.2.1. By Technology
 - 5.3.4.2.2. By Product

5.3.5. South Korea Blood Screening Market Outlook

- 5.3.5.1. Market Size & Forecast
 - 5.3.5.1.1. By Value
- 5.3.5.2. Market Share & Forecast
 - 5.3.5.2.1. By Technology
 - 5.3.5.2.2. By Product

6. EUROPE BLOOD SCREENING MARKET OUTLOOK

- 6.1. Market Size & Forecast
 - 6.1.1. By Value
- 6.2. Market Share & Forecast
 - 6.2.1. By Technology
 - 6.2.2. By Product
 - 6.2.3. By Country
- 6.3. Europe: Country Analysis
 - 6.3.1. France Blood Screening Market Outlook
 - 6.3.1.1. Market Size & Forecast
 - 6.3.1.1.1. By Value
 - 6.3.1.2. Market Share & Forecast
 - 6.3.1.2.1. By Technology
 - 6.3.1.2.2. By Product
 - 6.3.2. Germany Blood Screening Market Outlook
 - 6.3.2.1. Market Size & Forecast
 - 6.3.2.1.1. By Value
 - 6.3.2.2. Market Share & Forecast
 - 6.3.2.2.1. By Technology
 - 6.3.2.2.2. By Product
 - 6.3.3. Spain Blood Screening Market Outlook
 - 6.3.3.1. Market Size & Forecast
 - 6.3.3.1.1. By Value
 - 6.3.3.2. Market Share & Forecast
 - 6.3.3.2.1. By Technology
 - 6.3.3.2.2. By Product
 - 6.3.4. Italy Blood Screening Market Outlook
 - 6.3.4.1. Market Size & Forecast
 - 6.3.4.1.1. By Value
 - 6.3.4.2. Market Share & Forecast
 - 6.3.4.2.1. By Technology
 - 6.3.4.2.2. By Product

6.3.5. United Kingdom Blood Screening Market Outlook

6.3.5.1. Market Size & Forecast

6.3.5.1.1. By Value

6.3.5.2. Market Share & Forecast

6.3.5.2.1. By Technology

6.3.5.2.2. By Product

7. NORTH AMERICA BLOOD SCREENING MARKET OUTLOOK

7.1. Market Size & Forecast

7.1.1. By Value

7.2. Market Share & Forecast

7.2.1. By Technology

7.2.2. By Product

7.2.3. By Country

7.3. North America: Country Analysis

7.3.1. United States Blood Screening Market Outlook

7.3.1.1. Market Size & Forecast

7.3.1.1.1. By Value

7.3.1.2. Market Share & Forecast

7.3.1.2.1. By Technology

7.3.1.2.2. By Product

7.3.2. Mexico Blood Screening Market Outlook

7.3.2.1. Market Size & Forecast

7.3.2.1.1. By Value

7.3.2.2. Market Share & Forecast

7.3.2.2.1. By Technology

7.3.2.2.2. By Product

7.3.3. Canada Blood Screening Market Outlook

7.3.3.1. Market Size & Forecast

7.3.3.1.1. By Value

7.3.3.2. Market Share & Forecast

7.3.3.2.1. By Technology

7.3.3.2.2. By Product

8. SOUTH AMERICA BLOOD SCREENING MARKET OUTLOOK

8.1. Market Size & Forecast

8.1.1. By Value

- 8.2. Market Share & Forecast
 - 8.2.1. By Technology
 - 8.2.2. By Product
 - 8.2.3. By Country
- 8.3. South America: Country Analysis
 - 8.3.1. Brazil Blood Screening Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Technology
 - 8.3.1.2.2. By Product
 - 8.3.2. Argentina Blood Screening Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Technology
 - 8.3.2.2.2. By Product
 - 8.3.3. Colombia Blood Screening Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value
 - 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Technology
 - 8.3.3.2.2. By Product

9. MIDDLE EAST AND AFRICA BLOOD SCREENING MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Technology
 - 9.2.2. By Product
 - 9.2.3. By Country
- 9.3. MEA: Country Analysis
 - 9.3.1. South Africa Blood Screening Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value
 - 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Technology
 - 9.3.1.2.2. By Product

9.3.2. Saudi Arabia Blood Screening Market Outlook

9.3.2.1. Market Size & Forecast

9.3.2.1.1. By Value

9.3.2.2. Market Share & Forecast

9.3.2.2.1. By Technology

9.3.2.2.2. By Product

9.3.3. UAE Blood Screening Market Outlook

9.3.3.1. Market Size & Forecast

9.3.3.1.1. By Value

9.3.3.2. Market Share & Forecast

9.3.3.2.1. By Technology

9.3.3.2.2. By Product

10. MARKET DYNAMICS

10.1. Drivers

10.2. Challenges

11. MARKET TRENDS & DEVELOPMENTS

11.1. Recent Developments

11.2. Product Launches

11.3. Mergers & Acquisitions

12. GLOBAL BLOOD SCREENING MARKET: SWOT ANALYSIS

13. PORTER'S FIVE FORCES ANALYSIS

13.1. Competition in the Industry

13.2. Potential of New Entrants

13.3. Power of Suppliers

13.4. Power of Customers

13.5. Threat of Substitute Product

14. COMPETITIVE LANDSCAPE

14.1. Abbott Laboratories Inc.

14.1.1. Company Snapshot

14.1.2. Product & Services

- 14.1.4. Financials (In case of listed)
- 14.1.5. Recent Developments
- 14.1.6. SWOT Analysis
- 14.2. Danaher Corporation (Beckman Coulter)
- 14.3. Becton Dickinson and Company
- 14.4. Bio-Rad Laboratories, Inc.
- 14.5. Hoffman-La Roche Ltd.
- 14.6. Grifols, S.A.
- 14.7. Ortho-Clinical Diagnostics, Inc.
- 14.8. Siemens Healthineers AG
- 14.9. Thermo Fisher Scientific, Inc.
- 14.10. SOFINA s.a (Biomerieux)

15. STRATEGIC RECOMMENDATIONS

16. ABOUT US & DISCLAIMER

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