

Self-Sealing Plugs For Arterial Blood Collection Market Growth Rate Expected To Reach 7.4% CAGR By 2030

The Business Research Company's Self-Sealing Plugs For Arterial Blood Collection Global Market Report 2026 – Market Size, Trends, And Forecast 2026-2035

LONDON, GREATER LONDON, UNITED KINGDOM, September 23, 2026 /EINPresswire.com/ -- The market for self-sealing plugs used in arterial blood collection has been on a steady rise, driven by advancements in healthcare and increasing demands for patient safety. These specialized medical components play a crucial role in diagnostic procedures, especially in critical care settings, by maintaining the integrity and sterility of blood samples. Let's explore the size, growth factors, key drivers, and regional outlook of this evolving market.

Growth Trajectory and Market Size of Self-Sealing Plugs for Arterial Blood Collection

In recent years, the [self-sealing plugs for arterial blood collection market](#) has experienced solid growth. It is projected to expand from \$0.13 billion in 2025 to \$0.14 billion in 2026, marking a compound annual growth rate (CAGR) of 7.1%. This upward trend during the historical period is largely due to the increasing number of critical care admissions, a rise in arterial blood gas testing, heightened attention to healthcare worker safety, hospital diagnostic infrastructure development, and broader adoption of disposable medical devices. Looking ahead, the market is expected to reach \$0.18 billion by 2030, growing at a CAGR of 7.4%. The forecast period will be characterized by heightened demand for advanced safety devices in blood collection, greater investments in critical care

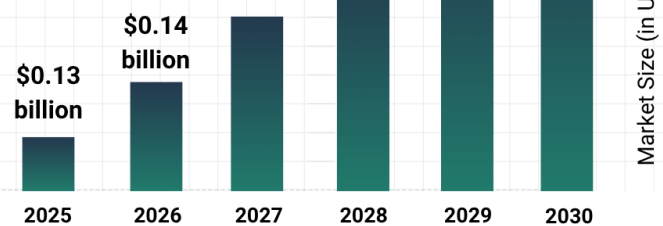
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CAGR 2026 - 2030
7.4%



Self-Sealing Plugs For Arterial Blood Collection Market analysis

diagnostics, a focus on infection prevention technologies, expansion of emergency and intensive care capacities, and stricter regulatory policies related to blood collection systems.

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Understanding the Role and Functionality of Self-Sealing Plugs for Arterial Blood Collection
Self-sealing plugs are designed to securely seal arterial blood collection devices immediately after drawing blood, preventing leaks and preserving sample quality. Their built-in self-sealing mechanisms reduce the risk of contamination and minimize healthcare workers' exposure to blood during handling. These components enhance both the safety and reliability of arterial blood collection systems by maintaining a sterile and closed environment following blood withdrawal, which is essential for accurate diagnostic testing.

Factors Stimulating Market Growth Due to Chronic Respiratory Disease Prevalence

One of the significant drivers for the self-sealing plugs market is the rising prevalence of chronic respiratory diseases (CRDs) such as asthma and chronic obstructive pulmonary disease (COPD). These conditions lead to ongoing breathing difficulties and require continuous monitoring and treatment. The increasing exposure to risk factors like air pollution and tobacco use contributes to the growth of CRDs, which in turn drives demand for respiratory care solutions. Self-sealing plugs play an essential role by enabling safe and effective arterial blood gas (ABG) sampling, which helps clinicians monitor oxygen and carbon dioxide levels to assess lung function in affected patients. For example, in 2024, asthma accounted for 2.5% of Australia's total disease burden and was notably the leading cause of disease burden among children aged 1 to 9 years, with healthcare expenses reaching approximately \$1.3 billion in 2023-24. This rising disease burden underscores the growing market potential for these plugs.

View the full self-sealing plugs for arterial blood collection market report:

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Rising Importance of Arterial Blood Gas Testing in Critical Care Settings

The increasing utilization of arterial blood gas testing in critical care environments is another major factor boosting the demand for self-sealing plugs. ABG testing provides rapid measurement of blood oxygen, carbon dioxide, and acid-base balance, which is vital for managing critically ill patients. As continuous patient monitoring becomes more essential, the use of self-sealing plugs ensures that blood collection paths remain sterile and closed, preventing contamination and leakage for accurate sample analysis. According to the American Association for Respiratory Care in November 2024, nearly 96% of acute care hospitals offered

ABG sampling, with 63.9% providing comprehensive ABG analysis services. This widespread adoption is directly influencing market expansion.

Growing Focus on Preventing Healthcare-Associated Infections Boosting Market Demand
Healthcare-associated infection (HAI) prevention is becoming a critical priority in medical facilities, further propelling market growth. Efforts to reduce infection risks in healthcare settings improve patient safety and help avoid complications from pathogen transmission. Self-sealing plugs contribute to this by forming a secure barrier after blood collection, lowering the chances of blood exposure and contamination during handling and disposal. For instance, in Australia, hospital-acquired complications were recorded in 220,000 cases out of 12.8 million hospitalizations as of June 2026, with varying rates between public and private hospitals. This increased focus on infection control measures strengthens the need for self-sealing plugs in clinical practice.

Regional Market Overview for Self-Sealing Plugs in Arterial Blood Collection

In 2025, North America held the largest market share for self-sealing plugs used in arterial blood collection. Nevertheless, the Asia-Pacific region is anticipated to be the fastest-growing market during the forecast period. The comprehensive market report includes insights from regions such as Asia-Pacific, South East Asia, Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa, offering a broad perspective on global trends and opportunities.

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