

The Near-Patient Molecular Solutions Market is projected to achieve a value of US \$6.55 billion by 2029.

The Business Research Company's Near-Patient Molecular Solution Global Market Report 2025 – Market Size, Trends, And Global Forecast 2025-2034

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/EINPresswire.com/ -- The [near-patient molecular solutions market](#) is rapidly

evolving, driven by the growing need for efficient and accessible diagnostic tools close to the patient's location. As healthcare systems continue to decentralize and adopt new technologies, this sector is set to experience significant growth and innovation in the coming years. Let's explore the current market size, key factors fueling its expansion, major players, emerging trends, and regional developments shaping its future.



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Near-Patient Molecular Solutions Market Size and Growth Outlook

The market for near-patient molecular solutions has seen swift expansion recently, with its value projected to rise from \$4.13 billion in 2024 to \$4.54 billion in 2025, growing at a compound annual growth rate (CAGR) of 10.0%. This upward trend is largely due to heightened demand for rapid infectious disease diagnostics, increased prevalence of communicable diseases, greater emphasis on

decentralized healthcare models, expansion of point-of-care testing initiatives in public health, improved healthcare access in low- and middle-income countries, and rising awareness about the importance of early disease detection. Looking ahead, the near-patient molecular solutions market is expected to reach \$6.656 billion by 2029, maintaining a strong CAGR of 9.6%. Key contributors to this forecast include the rising burden of chronic and emerging infectious diseases, broader adoption of precision and personalized medicine, integration of near-patient testing within primary care, government-led efforts to enhance diagnostic infrastructure, growth of community and home-based testing approaches, and increased healthcare spending to

improve diagnostic availability. Emerging market trends in this period include microfluidic cartridge innovations, multiplex molecular assay advancements, portable sample-to-answer analyzers, connectivity-enabled data systems, reagent miniaturization for field use, and automation improvements in molecular workflows.

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Understanding Near-Patient Molecular Solutions and Their Role in Healthcare

Near-patient molecular solutions refer to diagnostic tests that utilize molecular biology techniques such as DNA or RNA detection, conducted at or near the location where the patient receives care. Instead of sending samples to centralized labs, these tests analyze small biological specimens on-site using portable or simplified devices, enabling fast and accurate identification of pathogens or biomarkers. By delivering rapid and dependable results in outpatient clinics, emergency settings, or remote areas, these solutions support timely clinical decisions and improved patient outcomes.

Primary Drivers Behind Growth in Near-Patient Molecular Solutions

One of the main forces propelling the near-patient molecular solutions market is the growing demand for home-based point-of-care devices. These devices allow patients or non-laboratory personnel to perform diagnostic testing in or near their homes, facilitating sample collection, analysis, and results interpretation outside traditional laboratory environments. The increasing consumer preference for convenient, fast, and accessible health monitoring outside conventional healthcare facilities is accelerating this trend. Near-patient molecular solutions play an essential role in this space by offering precise, quick, and portable molecular diagnostics suitable for use beyond centralized labs.

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Expanding Demand for Home-Based Diagnostics Fuels Market Growth

For example, in February 2023, the U.S. Food and Drug Administration (FDA) reported several Emergency Use Authorizations (EUAs) for at-home COVID-19 tests, including one for a molecular prescription test, two for antigen prescription tests, 26 for antigen over-the-counter tests, and four for molecular over-the-counter tests. This surge in approvals illustrates the increasing adoption of home-based molecular diagnostics and highlights their importance in supporting decentralized healthcare delivery models. Consequently, the rising demand for home-based point-of-care devices is a key catalyst driving the expansion of the near-patient molecular solutions market.

Regional Overview and Market Expansion Patterns

In 2024, North America held the largest share of the near-patient molecular solutions market. However, the Asia-Pacific region is anticipated to be the fastest-growing market over the forecast

period. The comprehensive market analysis covers regions such as Asia-Pacific, Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa, providing a global perspective on regional dynamics and growth opportunities within this evolving sector.

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