

U.S. Point of Care Molecular Diagnostics Market Size, Share & Trends Analysis Report By Test Location (OTC, POC), By Application (Infectious Diseases, Oncology, Prenatal Testing), By Technology, By End-use (Decentralized Labs, Hospitals), And Segment Forecasts, 2025 - 2033

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Abstracts

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Market Size & Trends

The U.S. point of care molecular diagnostics market size was estimated at USD 3.23 billion in 2024 and is expected to grow at a CAGR of 5.45% from 2025 to 2033. The market is centered around rapid and decentralized molecular testing that supports quicker clinical decisions at or near the site of patient care. These diagnostic platforms are increasingly adopted for applications such as infectious disease screening, respiratory tract infections, and sexually transmitted disease detection, driven by the need for immediate and accurate results in outpatient and emergency settings.

Market growth is supported by the rising demand for quick and easy testing outside traditional labs, especially in emergency rooms and clinics. The growing number of infectious disease cases and the need for fast results are pushing the use of point-of-care molecular tests. New technologies, such as portable PCR machines and simple sample processing tools, make these tests more accurate and easier to use. In addition, the focus on faster testing after the COVID-19 pandemic is helping the market grow further.

Moreover, point-of-care molecular diagnostics in primary care settings cover a wide range of uses, from basic glucose tests to more complex blood clotting checks. Many clinics across the U.S. are moving away from traditional lab-based testing to point-of-care methods, which help reduce delays linked to sample handling and transport. This switch allows for quicker decisions during patient visits, leading to faster results, lower costs, and improved care.

In addition, the growing elderly population is expected to support the growth of the U.S. point of care molecular diagnostics industry. Based on the U.S. National Cancer Institute's SEER Database, 38% of women and 43% of men are likely to develop cancer during their lifetime. Nearly two-thirds of all new cancer cases are found in people aged 65 and older, showing that aging increases vulnerability to cancer. Molecular diagnostics play a key role in managing cancer, infectious diseases, and heart conditions, making them an essential part of timely diagnosis and treatment in older adults.

Furthermore, market players are actively developing new point-of-care molecular testing products to address growing diagnostic needs. In April 2023, Curative, Inc., based in Los Angeles, announced the spin-off of Sensible Diagnostics to commercialize a desktop PCR testing platform. This system is designed to deliver lab-quality results in approximately 10 minutes, at a cost similar to lateral flow antigen tests. It is intended for use in retail clinics, urgent care centers, and other near-patient environments.

In August 2023, Sensible Diagnostics received a NIH RADx Tech award of approximately USD 1 million to support the development of a multiplex respiratory viral panel for point-of-care use. These efforts reflect growing investment in rapid, accurate molecular testing solutions that support timely diagnosis and improve clinical workflows across decentralized care settings.

U.S. Point of Care Molecular Diagnostics Market Report Segmentation

This report forecasts revenue growth and provides an analysis of the latest trends in each of the sub-segments from 2021 to 2033. For this report, Grand View Research has segmented the U.S. point of care molecular diagnostics market report based on application, technology, test location, and end-use:

Technology Outlook (Revenue, USD Million, 2021 - 2033)

PCR-based

Genetic Sequencing-based

Hybridization-based

Microarray-based

Application Outlook (Revenue, USD Million, 2021 - 2033)

Infectious Diseases

HIV POC

Clostridium difficile POC

HBV POC

Pneumonia or Streptococcus associated infections

Respiratory syncytial virus (RSV) POC

HPV POC

Influenza/Flu POC

HCV POC

MRSA POC

TB and drug-resistant TB POC

HSV POC

Other Infectious Diseases

Oncology

Hematology

Complete blood count (CBC)

Prothrombin time (PT)

Partial Thromboplastin Time (PTT)

Others

Prenatal Testing

Endocrinology

Other Applications

Test Location Outlook (Revenue, USD Million, 2021 - 2033)

OTC

POC

End-use Outlook (Revenue, USD Million, 2021 - 2033)

Decentralized Labs

Hospitals

Home-care

Assisted Living Healthcare Facilities

Others

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