

U.S. Blood Testing Market Size, Share & Trends Analysis Report By Test Type (Glucose, A1C, Direct LDL, Lipid Panel, Prostate-specific Antigen, COVID-19, BUN, Vitamin D, Thyroid-stimulating Hormone, Serum Nicotine/Cotinine, High sensitivity CRP), And Segment Forecasts, 2025 - 2033

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Abstracts

U.S. Blood Testing Market Summary

The U.S. blood testing market size was valued at USD 35.90 billion in 2024 and is projected to reach USD 71.41 billion by 2033, growing at a CAGR of 8.1% from 2025 to 2033. The market is primarily driven by the rising prevalence of chronic diseases such as diabetes, cardiovascular conditions, and cancer, which necessitate frequent diagnostic testing and monitoring for effective management.

Growing public awareness and a shift toward preventive healthcare, encouraging routine check-ups and early disease detection screening, are the major drivers for this market. In 2024, the Centers for Disease Control and Prevention (CDC) strengthened its core laboratory capabilities to detect and respond to high-priority pathogens. Recent technological innovations are a major catalyst for the market's expansion, improving the accessibility and efficiency of blood testing. For instance, in June 2024, the FDA granted marketing authorization for the first point-of-care Hepatitis C virus (HCV) RNA test, which enables single-visit testing and treatment using a fingertip blood sample.

Other key technological advances that are expected to impact this market are:

Artificial Intelligence Integration: AI and machine learning were pivotal in interpreting

complex blood test data, enabling earlier disease detection, automation of smear analysis, improved biomarker identification, and reduced diagnostic errors. These systems accelerated result delivery and matched or exceeded clinical gold standards in sensitivity and specificity.

Lab-on-a-Chip Technology: Miniaturized devices capable of processing multiple blood tests on a single drop dramatically reduce laboratory demands, increasing access in remote and resource-limited regions while supporting rapid point-of-care diagnostics.

Wearable Biosensors: Smart devices (e.g., glucose and hemoglobin trackers) became possible for monitoring real-time, continuous blood composition. These are integrated with telemedicine platforms, improving chronic disease management, patient engagement, and rapid response to changes in health.

U.S. Blood Testing Market Report Segmentation

This report forecasts revenue growth at the country level and provides an analysis of the latest industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the U.S. blood testing market report based on test type:

Test Type Outlook (Revenue, USD Billion, 2021 - 2033)

Glucose Testing

A1C Testing

Direct LDL testing

Lipid panel testing

Prostate-specific antigen testing

COVID-19 testing

BUN testing

Vitamin D testing

Thyroid-stimulating hormone testing

Serum Nicotine / Cotinine testing

High sensitivity CRP testing

Testosterone testing

ALT testing

Cortisol testing

Creatinine testing

AST testing

Other blood tests

This report can be delivered to the clients within 2 Business Days

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