

Sexually Transmitted Disease (STD) Testing Market - Forecast from 2026 to 2031

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Abstracts

The sexually transmitted disease (STD) testing market is anticipated to increase at a 6.86% CAGR, from USD 9.819 billion in 2025 to USD 14.619 billion in 2031.

The Sexually Transmitted Disease (STD) testing market is a critical and expanding component of the global diagnostics landscape, driven by the persistent public health burden of infectious diseases transmitted through sexual contact. This market encompasses a wide range of diagnostic technologies and platforms designed to detect pathogens responsible for common STDs, including chlamydia, gonorrhea, syphilis, human immunodeficiency virus (HIV), human papillomavirus (HPV), and herpes simplex virus (HSV). The market's growth is propelled by high global infection rates, increasing public health initiatives aimed at screening and prevention, and significant technological evolution that is improving test accessibility, speed, and accuracy.

A primary and powerful driver of market expansion is the sustained high prevalence of STDs worldwide. The incidence of common bacterial and viral infections remains alarmingly high, creating a continuous and growing need for diagnostic testing. HIV continues to be a major focus, with ongoing transmission requiring widespread testing for both diagnosis and monitoring of treatment efficacy. Simultaneously, infections like chlamydia, gonorrhea, and syphilis have seen resurgent rates in many regions, often fueled by a combination of behavioral, social, and healthcare access factors. The serious long-term health consequences of untreated STDs—including infertility, pelvic inflammatory disease, certain cancers, adverse pregnancy outcomes, and enhanced HIV transmission—underscore the clinical and public health imperative for effective diagnostic solutions. This epidemiological reality ensures a foundational demand for testing services.

Complementing this driver are concerted government and institutional public health initiatives aimed at increasing awareness, screening, and early intervention. National and regional health agencies frequently implement targeted screening programs, public awareness campaigns, and partner notification services to curb transmission. Many initiatives specifically focus on high-risk populations and aim to reduce the stigma associated with testing. These programs often involve the provision of subsidized or free testing kits and the integration of screening into routine primary care, thereby structurally increasing testing volumes and fostering market growth by normalizing STD testing as a component of standard healthcare.

Technological advancement is a key force shaping the market's evolution and expanding its reach. The development of highly sensitive and specific molecular diagnostic tests, notably Nucleic Acid Amplification Tests (NAATs), has become the gold standard for detecting bacterial STDs like chlamydia and gonorrhea due to their superior accuracy over traditional culture methods. A significant trend is the rapid growth and refinement of at-home testing kits. These solutions, which often utilize self-collected samples (such as vaginal swabs, urine, or fingerstick blood) mailed to a central lab, address critical barriers related to privacy, convenience, and stigma. This direct-to-consumer model is dramatically increasing testing accessibility, particularly among individuals reluctant to visit a clinic, and represents a major growth vector for the market.

Despite strong drivers, the market faces significant restraints related to healthcare disparities and social stigma. In low- and middle-income countries, as well as underserved communities in developed nations, access to testing is often limited by factors including lack of healthcare infrastructure, shortage of trained personnel, cost, and low health literacy regarding STD prevention and symptoms. Deeply ingrained social stigma surrounding sexual health can deter individuals from seeking testing, even when services are available. Overcoming these barriers requires multifaceted approaches combining affordable point-of-care technologies, community-based testing programs, and sustained destigmatization efforts, which remain ongoing challenges.

Geographically, North America is anticipated to maintain a dominant market share. This prominence is attributed to the region's high reported incidence rates of STDs, a well-established and accessible diagnostic infrastructure, and proactive public health surveillance and screening programs. High levels of health awareness, favorable reimbursement landscapes for laboratory testing, and the presence of leading global diagnostics manufacturers who drive innovation further consolidate the region's position. Continuous public health campaigns and the widespread adoption of advanced

molecular testing in clinical practice sustain a high-volume testing environment.

The competitive landscape features large, diversified diagnostics corporations and firms specializing in molecular infectious disease testing. Key players compete on the basis of test menu breadth, analytical performance (sensitivity and specificity), throughput for high-volume laboratories, and the development of integrated, automated platforms that streamline workflow. A major strategic focus is the expansion of multiplex assays that can detect several pathogens from a single sample, improving efficiency and comprehensive screening. Significant investment is also directed toward the development and commercialization of user-friendly, CLIA-waived point-of-care tests that can deliver rapid results in non-laboratory settings, and in refining the digital platforms that support at-home testing services.

In conclusion, the STD testing market is driven by an urgent and unmet public health need, magnified by technological progress that is making testing more accurate, accessible, and acceptable. Its growth is structurally supported by the unrelenting global prevalence of sexually transmitted infections and the increasing integration of screening into preventive healthcare frameworks. The future trajectory of the market will be significantly influenced by the continued penetration of at-home testing models, the development of faster and cheaper point-of-care diagnostics for low-resource settings, and the ongoing battle to reduce stigma and improve health equity in sexual healthcare. As diagnostics continue to evolve, they will remain the cornerstone of efforts to control and ultimately reduce the burden of STDs worldwide.

Key Benefits of this Report:

Insightful Analysis: Gain detailed market insights covering major as well as emerging geographical regions, focusing on customer segments, government policies and socio-economic factors, consumer preferences, industry verticals, and other sub-segments.

Competitive Landscape: Understand the strategic maneuvers employed by key players globally to understand possible market penetration with the correct strategy.

Market Drivers & Future Trends: Explore the dynamic factors and pivotal market trends and how they will shape future market developments.

Actionable Recommendations: Utilize the insights to exercise strategic decisions

to uncover new business streams and revenues in a dynamic environment.

Caters to a Wide Audience: Beneficial and cost-effective for startups, research institutions, consultants, SMEs, and large enterprises.

What do businesses use our reports for?

Industry and Market Insights, Opportunity Assessment, Product Demand Forecasting, Market Entry Strategy, Geographical Expansion, Capital Investment Decisions, Regulatory Framework & Implications, New Product Development, Competitive Intelligence

Report Coverage:

Historical data from 2021 to 2025 & forecast data from 2026 to 2031

Growth Opportunities, Challenges, Supply Chain Outlook, Regulatory Framework, and Trend Analysis

Competitive Positioning, Strategies, and Market Share Analysis

Revenue Growth and Forecast Assessment of segments and regions including countries

Company Profiling (Strategies, Products, Financial Information, and Key Developments among others.

Sexually Transmitted Disease (STD) Testing Market Segmentation

By Disease Type

Chlamydia

Gonorrhea

Herpes Simplex Virus

Syphilis

Human Papillomavirus (HPV)

Others

By Testing Location

Laboratory Testing

Point of Care (POC) Testing

By Geography

North America

USA

Canada

Mexico

South America

Brazil

Argentina

Others

Europe

Germany

France

United Kingdom

Spain

Others

Middle East and Africa

Saudi Arabia

UAE

Others

Asia Pacific

China

India

Japan

South Korea

Indonesia

Thailand

Others

Contents

1. EXECUTIVE SUMMARY

2. MARKET SNAPSHOT

- 2.1. Market Overview
- 2.2. Market Definition
- 2.3. Scope of the Study
- 2.4. Market Segmentation

3. BUSINESS LANDSCAPE

- 3.1. Market Drivers
- 3.2. Market Restraints
- 3.3. Market Opportunities
- 3.4. Porter's Five Forces Analysis
- 3.5. Industry Value Chain Analysis
- 3.6. Policies and Regulations
- 3.7. Strategic Recommendations

4. TECHNOLOGICAL OUTLOOK

5. SEXUALLY TRANSMITTED DISEASE (STD) TESTING MARKET BY DISEASE TYPE

- 5.1. Introduction
- 5.2. Chlamydia
- 5.3. Gonorrhoea
- 5.4. Herpes simplex virus
- 5.5. Syphilis
- 5.6. Human papillomavirus (HPV)
- 5.7. Others

6. SEXUALLY TRANSMITTED DISEASE (STD) TESTING MARKET BY TESTING LOCATION

- 6.1. Introduction
- 6.2. Laboratory testing

6.3. Point of care (POC) testing

7. SEXUALLY TRANSMITTED DISEASE (STD) TESTING MARKET BY GEOGRAPHY

7.1. Introduction

7.2. North America

7.2.1. USA

7.2.2. Canada

7.2.3. Mexico

7.3. South America

7.3.1. Brazil

7.3.2. Argentina

7.3.3. Others

7.4. Europe

7.4.1. Germany

7.4.2. France

7.4.3. United Kingdom

7.4.4. Spain

7.4.5. Others

7.5. Middle East and Africa

7.5.1. Saudi Arabia

7.5.2. UAE

7.5.3. Others

7.6. Asia Pacific

7.6.1. China

7.6.2. India

7.6.3. Japan

7.6.4. South Korea

7.6.5. Indonesia

7.6.6. Thailand

7.6.7. Others

8. COMPETITIVE ENVIRONMENT AND ANALYSIS

8.1. Major Players and Strategy Analysis

8.2. Market Share Analysis

8.3. Mergers, Acquisitions, Agreements, and Collaborations

8.4. Competitive Dashboard

9. COMPANY PROFILES

- 9.1. Abbott Laboratories
- 9.2. Becton Dickinson Company
- 9.3. Biomérieux, Inc.
- 9.4. Bio-Rad Laboratories Inc.
- 9.5. Diasorin Molecular LLC
- 9.6. Hologic Inc.
- 9.7. Roche Holdings AG
- 9.8. Thermo Fisher Scientific (Affymetrix)

10. APPENDIX

- 10.1. Currency
- 10.2. Assumptions
- 10.3. Base and Forecast Years Timeline
- 10.4. Key Benefits for the Stakeholders
- 10.5. Research Methodology
- 10.6. Abbreviations

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