

Prostate Specific Antigen (Psa) Test Market Outlook 2025-2034: Market Share, and Growth Analysis By Type (Clinical Laboratory Improvement Amendments (CLIA), Enzyme-Linked Immunosorbent Assay (ELISA), Fluorescence Immunoassay (FIA), Other Types), By Application (Screening, Post-Treatment Monitoring, Other Applications), By End User

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Abstracts

The Prostate Specific Antigen (Psa) Test Market is valued at USD 5.7 billion in 2025 and is projected to grow at a CAGR of 12.4% to reach USD 16.3 billion by 2034.

Prostate Specific Antigen (PSA) Test Market Overview

The Prostate Specific Antigen (PSA) test market plays a crucial role in the early detection and monitoring of prostate cancer, one of the most common cancers among men worldwide. PSA testing measures the level of PSA, a protein produced by the prostate gland, in a man's blood, helping detect abnormalities even before symptoms appear. It is widely used for routine screening, particularly in high-risk populations, and also to track treatment efficacy and disease recurrence. Growing awareness about men's health, the rising global burden of prostate cancer, and the emphasis on early diagnosis are driving the demand for PSA testing. Technological advancements in immunoassays and automated analyzers have enhanced test sensitivity and turnaround times. Moreover, healthcare systems are increasingly incorporating PSA screening into preventive health check-ups, especially in aging populations. Despite some debate around overdiagnosis and false positives, the PSA test remains a primary diagnostic tool in urology, with growing application across primary care and specialized clinical settings. The PSA test market witnessed steady expansion, supported by increased

prostate cancer screening programs, improved diagnostic infrastructure, and broader acceptance of early detection strategies. Governments and healthcare providers promoted awareness campaigns focused on routine testing for men over 50, leading to a surge in annual PSA screenings, particularly in North America and Europe. Advances in diagnostic platforms enabled more accurate and faster PSA testing through high-throughput analyzers and lab-on-chip technologies. Some companies also introduced point-of-care PSA tests aimed at expanding access in remote or underserved areas. Integration of PSA testing with digital health tools such as electronic medical records and mobile alerts improved compliance and follow-up care. The market also saw innovation in PSA isoform differentiation, helping distinguish between benign prostatic hyperplasia and malignancy more effectively. However, clinical discussions around the limitations of PSA specificity continued, prompting parallel research into complementary biomarkers and risk-based screening algorithms to enhance diagnostic accuracy. The PSA test market is expected to evolve alongside advances in personalized medicine and precision diagnostics. The development of multi-analyte panels combining PSA with other prostate cancer biomarkers—such as PHI (Prostate Health Index) and 4Kscore—will enhance the test's diagnostic performance and reduce unnecessary biopsies. AI-based tools and predictive models will play a growing role in interpreting PSA results, taking into account individual risk factors such as age, genetics, and family history. The availability of home-based PSA test kits is anticipated to expand, improving accessibility and encouraging regular screening, especially in aging male populations. Emerging markets in Asia and Latin America will also present significant growth opportunities as healthcare systems enhance cancer screening initiatives. Meanwhile, regulatory bodies will continue to refine screening guidelines to ensure a balance between early detection and the avoidance of overtreatment. Overall, the market will move toward more integrated, risk-adaptive screening strategies, supported by innovation in diagnostics, digital health, and clinical decision support tools.

Key Insights Prostate Specific Antigen (Psa) Test Market

Multi-biomarker panels combining PSA with complementary markers are gaining adoption to improve specificity and reduce false positives in prostate cancer screening.

AI-powered diagnostic algorithms are enhancing risk assessment by analyzing PSA levels in conjunction with clinical and demographic data.

Home-based and point-of-care PSA test kits are emerging, increasing accessibility and convenience for regular monitoring, especially in remote or

elderly populations.

Digital health integration is streamlining PSA screening workflows, with automated reminders, e-health records, and teleconsultations supporting patient compliance.

Focus on personalized screening protocols is rising, moving away from age-based guidelines to risk-adaptive testing based on genetics, lifestyle, and comorbidities.

Rising global prevalence of prostate cancer is fueling demand for early detection tools like PSA tests, particularly in aging male populations.

Government-backed awareness programs and preventive healthcare initiatives are encouraging regular PSA screening in high-risk groups.

Technological advancements in immunoassays and lab automation are improving test accuracy, scalability, and diagnostic confidence.

Increased healthcare access in emerging markets is expanding the adoption of PSA testing through public screening campaigns and private health check-ups.

Concerns over overdiagnosis, false positives, and unnecessary biopsies associated with PSA testing continue to pose challenges, prompting clinicians to seek more accurate and risk-based screening alternatives.

Prostate Specific Antigen (Psa) Test Market Segmentation

By Type

Clinical Laboratory Improvement Amendments (CLIA)

Enzyme-Linked Immunosorbent Assay (ELISA)

Fluorescence Immunoassay (FIA)

Other Types

By Application

Screening

Post-Treatment Monitoring

Other Applications

By End User

Hospitals

Diagnostic Centers

Research Institutes

Other End Users

Key Companies Analysed

Siemens AG

F. Hoffmann-La Roche AG

Bayer AG

Abbott Laboratories

Becton Dickinson and Company

PerkinElmer Inc.

Beckman Coulter Inc.

Bio-Rad Laboratories Inc.

Ortho-Clinical Diagnostics Inc.

DiaSorin SpA

OPKO Health Inc.

R&D Systems Inc.

Meso Scale Diagnostics LLC

Tosoh America Inc.

Fujirebio Europe N.V.

Boditech Med Inc.

DRG International Inc.

BioVision Inc.

Enzo Life Sciences Inc.

RayBiotech Inc.

Novus Biologicals LLC

Creative Diagnostics Inc.

Elabscience

LifeSpan BioSciences Inc.

American Laboratory Products Company Ltd.

Accuquik Inc.

AOBIOUS Inc.

Boster Biological Technology Co. Ltd.

Cell Biolabs Inc.

Lomina AG

Prostate Specific Antigen (Psa) Test Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modeling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behavior are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

Prostate Specific Antigen (Psa) Test Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption.

Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

Countries Covered

North America — Prostate Specific Antigen (Psa) Test market data and outlook to 2034

United States

Canada

Mexico

Europe — Prostate Specific Antigen (Psa) Test market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Prostate Specific Antigen (Psa) Test market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Prostate Specific Antigen (Psa) Test market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Prostate Specific Antigen (Psa) Test market data and outlook to 2034

Brazil

Argentina

Chile

Peru

** We can include data and analysis of additional countries on demand.*

Research Methodology

This study combines primary inputs from industry experts across the Prostate Specific Antigen (Psa) Test value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

Key Questions Addressed

What is the current and forecast market size of the Prostate Specific Antigen (Psa) Test industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

Your Key Takeaways from the Prostate Specific Antigen (Psa) Test Market Report

Global Prostate Specific Antigen (Psa) Test market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Prostate Specific Antigen (Psa) Test trade, costs, and supply chains

Prostate Specific Antigen (Psa) Test market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Prostate Specific Antigen (Psa) Test market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Prostate Specific Antigen (Psa) Test market trends, drivers, restraints, and opportunities

Porter’s Five Forces analysis, technological developments, and Prostate Specific Antigen (Psa) Test supply chain analysis

Prostate Specific Antigen (Psa) Test trade analysis, Prostate Specific Antigen (Psa) Test market price analysis, and Prostate Specific Antigen (Psa) Test supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Prostate Specific Antigen (Psa) Test market news and developments

Additional Support

With the purchase of this report, you will receive

An updated PDF report and an MS Excel data workbook containing all market tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

Complimentary report update to incorporate the latest available data and the impact of recent market developments.

** The updated report will be delivered within 3 working days*

Contents

1. TABLE OF CONTENTS

- 1.1 List of Tables
- 1.2 List of Figures

2. GLOBAL PROSTATE SPECIFIC ANTIGEN (PSA) TEST MARKET SUMMARY, 2025

- 2.1 Prostate Specific Antigen (Psa) Test Industry Overview
 - 2.1.1 Global Prostate Specific Antigen (Psa) Test Market Revenues (In US\$ billion)
- 2.2 Prostate Specific Antigen (Psa) Test Market Scope
- 2.3 Research Methodology

3. PROSTATE SPECIFIC ANTIGEN (PSA) TEST MARKET INSIGHTS, 2024-2034

- 3.1 Prostate Specific Antigen (Psa) Test Market Drivers
- 3.2 Prostate Specific Antigen (Psa) Test Market Restraints
- 3.3 Prostate Specific Antigen (Psa) Test Market Opportunities
- 3.4 Prostate Specific Antigen (Psa) Test Market Challenges
- 3.5 Tariff Impact on Global Prostate Specific Antigen (Psa) Test Supply Chain Patterns

4. PROSTATE SPECIFIC ANTIGEN (PSA) TEST MARKET ANALYTICS

- 4.1 Prostate Specific Antigen (Psa) Test Market Size and Share, Key Products, 2025 Vs 2034
- 4.2 Prostate Specific Antigen (Psa) Test Market Size and Share, Dominant Applications, 2025 Vs 2034
- 4.3 Prostate Specific Antigen (Psa) Test Market Size and Share, Leading End Uses, 2025 Vs 2034
- 4.4 Prostate Specific Antigen (Psa) Test Market Size and Share, High Growth Countries, 2025 Vs 2034
- 4.5 Five Forces Analysis for Global Prostate Specific Antigen (Psa) Test Market
 - 4.5.1 Prostate Specific Antigen (Psa) Test Industry Attractiveness Index, 2025
 - 4.5.2 Prostate Specific Antigen (Psa) Test Supplier Intelligence
 - 4.5.3 Prostate Specific Antigen (Psa) Test Buyer Intelligence
 - 4.5.4 Prostate Specific Antigen (Psa) Test Competition Intelligence
 - 4.5.5 Prostate Specific Antigen (Psa) Test Product Alternatives and Substitutes

Intelligence

4.5.6 Prostate Specific Antigen (Psa) Test Market Entry Intelligence

5. GLOBAL PROSTATE SPECIFIC ANTIGEN (PSA) TEST MARKET STATISTICS – INDUSTRY REVENUE, MARKET SHARE, GROWTH TRENDS AND FORECAST BY SEGMENTS, TO 2034

5.1 World Prostate Specific Antigen (Psa) Test Market Size, Potential and Growth Outlook, 2024- 2034 (\$ billion)

5.1 Global Prostate Specific Antigen (Psa) Test Sales Outlook and CAGR Growth By Type, 2024- 2034 (\$ billion)

5.2 Global Prostate Specific Antigen (Psa) Test Sales Outlook and CAGR Growth By Application, 2024- 2034 (\$ billion)

5.3 Global Prostate Specific Antigen (Psa) Test Sales Outlook and CAGR Growth By End User, 2024- 2034 (\$ billion)

5.4 Global Prostate Specific Antigen (Psa) Test Market Sales Outlook and Growth by Region, 2024- 2034 (\$ billion)

6. ASIA PACIFIC PROSTATE SPECIFIC ANTIGEN (PSA) TEST INDUSTRY STATISTICS – MARKET SIZE, SHARE, COMPETITION AND OUTLOOK

6.1 Asia Pacific Prostate Specific Antigen (Psa) Test Market Insights, 2025

6.2 Asia Pacific Prostate Specific Antigen (Psa) Test Market Revenue Forecast By Type, 2024- 2034 (USD billion)

6.3 Asia Pacific Prostate Specific Antigen (Psa) Test Market Revenue Forecast By Application, 2024- 2034 (USD billion)

6.4 Asia Pacific Prostate Specific Antigen (Psa) Test Market Revenue Forecast By End User, 2024- 2034 (USD billion)

6.5 Asia Pacific Prostate Specific Antigen (Psa) Test Market Revenue Forecast by Country, 2024- 2034 (USD billion)

6.5.1 China Prostate Specific Antigen (Psa) Test Market Size, Opportunities, Growth 2024- 2034

6.5.2 India Prostate Specific Antigen (Psa) Test Market Size, Opportunities, Growth 2024- 2034

6.5.3 Japan Prostate Specific Antigen (Psa) Test Market Size, Opportunities, Growth 2024- 2034

6.5.4 Australia Prostate Specific Antigen (Psa) Test Market Size, Opportunities, Growth 2024- 2034

7. EUROPE PROSTATE SPECIFIC ANTIGEN (PSA) TEST MARKET DATA, PENETRATION, AND BUSINESS PROSPECTS TO 2034

7.1 Europe Prostate Specific Antigen (Psa) Test Market Key Findings, 2025

7.2 Europe Prostate Specific Antigen (Psa) Test Market Size and Percentage Breakdown By Type, 2024- 2034 (USD billion)

7.3 Europe Prostate Specific Antigen (Psa) Test Market Size and Percentage Breakdown By Application, 2024- 2034 (USD billion)

7.4 Europe Prostate Specific Antigen (Psa) Test Market Size and Percentage Breakdown By End User, 2024- 2034 (USD billion)

7.5 Europe Prostate Specific Antigen (Psa) Test Market Size and Percentage Breakdown by Country, 2024- 2034 (USD billion)

7.5.1 Germany Prostate Specific Antigen (Psa) Test Market Size, Trends, Growth Outlook to 2034

7.5.2 United Kingdom Prostate Specific Antigen (Psa) Test Market Size, Trends, Growth Outlook to 2034

7.5.2 France Prostate Specific Antigen (Psa) Test Market Size, Trends, Growth Outlook to 2034

7.5.2 Italy Prostate Specific Antigen (Psa) Test Market Size, Trends, Growth Outlook to 2034

7.5.2 Spain Prostate Specific Antigen (Psa) Test Market Size, Trends, Growth Outlook to 2034

8. NORTH AMERICA PROSTATE SPECIFIC ANTIGEN (PSA) TEST MARKET SIZE, GROWTH TRENDS, AND FUTURE PROSPECTS TO 2034

8.1 North America Snapshot, 2025

8.2 North America Prostate Specific Antigen (Psa) Test Market Analysis and Outlook By Type, 2024- 2034 (\$ billion)

8.3 North America Prostate Specific Antigen (Psa) Test Market Analysis and Outlook By Application, 2024- 2034 (\$ billion)

8.4 North America Prostate Specific Antigen (Psa) Test Market Analysis and Outlook By End User, 2024- 2034 (\$ billion)

8.5 North America Prostate Specific Antigen (Psa) Test Market Analysis and Outlook by Country, 2024- 2034 (\$ billion)

8.5.1 United States Prostate Specific Antigen (Psa) Test Market Size, Share, Growth Trends and Forecast, 2024- 2034

8.5.1 Canada Prostate Specific Antigen (Psa) Test Market Size, Share, Growth Trends and Forecast, 2024- 2034

8.5.1 Mexico Prostate Specific Antigen (Psa) Test Market Size, Share, Growth Trends and Forecast, 2024- 2034

9. SOUTH AND CENTRAL AMERICA PROSTATE SPECIFIC ANTIGEN (PSA) TEST MARKET DRIVERS, CHALLENGES, AND FUTURE PROSPECTS

9.1 Latin America Prostate Specific Antigen (Psa) Test Market Data, 2025

9.2 Latin America Prostate Specific Antigen (Psa) Test Market Future By Type, 2024-2034 (\$ billion)

9.3 Latin America Prostate Specific Antigen (Psa) Test Market Future By Application, 2024- 2034 (\$ billion)

9.4 Latin America Prostate Specific Antigen (Psa) Test Market Future By End User, 2024- 2034 (\$ billion)

9.5 Latin America Prostate Specific Antigen (Psa) Test Market Future by Country, 2024-2034 (\$ billion)

9.5.1 Brazil Prostate Specific Antigen (Psa) Test Market Size, Share and Opportunities to 2034

9.5.2 Argentina Prostate Specific Antigen (Psa) Test Market Size, Share and Opportunities to 2034

10. MIDDLE EAST AFRICA PROSTATE SPECIFIC ANTIGEN (PSA) TEST MARKET OUTLOOK AND GROWTH PROSPECTS

10.1 Middle East Africa Overview, 2025

10.2 Middle East Africa Prostate Specific Antigen (Psa) Test Market Statistics By Type, 2024- 2034 (USD billion)

10.3 Middle East Africa Prostate Specific Antigen (Psa) Test Market Statistics By Application, 2024- 2034 (USD billion)

10.4 Middle East Africa Prostate Specific Antigen (Psa) Test Market Statistics By End User, 2024- 2034 (USD billion)

10.5 Middle East Africa Prostate Specific Antigen (Psa) Test Market Statistics by Country, 2024- 2034 (USD billion)

10.5.1 Middle East Prostate Specific Antigen (Psa) Test Market Value, Trends, Growth Forecasts to 2034

10.5.2 Africa Prostate Specific Antigen (Psa) Test Market Value, Trends, Growth Forecasts to 2034

11. PROSTATE SPECIFIC ANTIGEN (PSA) TEST MARKET STRUCTURE AND COMPETITIVE LANDSCAPE

- 11.1 Key Companies in Prostate Specific Antigen (Psa) Test Industry
- 11.2 Prostate Specific Antigen (Psa) Test Business Overview
- 11.3 Prostate Specific Antigen (Psa) Test Product Portfolio Analysis
- 11.4 Financial Analysis
- 11.5 SWOT Analysis

12 APPENDIX

- 12.1 Global Prostate Specific Antigen (Psa) Test Market Volume (Tons)
- 12.1 Global Prostate Specific Antigen (Psa) Test Trade and Price Analysis
- 12.2 Prostate Specific Antigen (Psa) Test Parent Market and Other Relevant Analysis
- 12.3 Publisher Expertise
- 12.2 Prostate Specific Antigen (Psa) Test Industry Report Sources and Methodology

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