

Cannabis Testing Market Outlook 2025-2034: Market Share, and Growth Analysis By Test Type (Potency Testing, Pesticide Screening, Residual Solvent Screening, Heavy Metal Testing, Terpene Testing, Mycotoxin Testing, Other Test Types), By Technology (Chromatography, Spectroscopy, Other Technologies), By Portability, By End User

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Abstracts

The Cannabis Testing Market is valued at USD 4.3 billion in 2025 and is projected to grow at a CAGR of 18.2% to reach USD 19.4 billion by 2034.

Cannabis Testing Market

The cannabis testing market is a critical component of the legal cannabis industry, ensuring product quality, safety, and compliance with regulatory standards. Testing laboratories analyze cannabis products for potency, contaminants, residual solvents, heavy metals, pesticides, and microbial content. This testing process not only safeguards consumer health but also helps producers refine their cultivation and extraction practices, ultimately improving the quality and consistency of cannabis products on the market. As legalization expands and regulatory requirements grow more stringent, the demand for accurate, reliable testing services continues to rise. A key driver of this market's growth is the increasing complexity of cannabis product offerings. With a proliferation of edibles, beverages, topicals, and concentrates, producers must ensure that each product meets regulatory limits and provides accurate labeling for cannabinoids such as THC and CBD. Additionally, international expansion of legal cannabis markets has led to a greater need for standardized testing protocols, enabling products to be traded across borders and instilling confidence in both

consumers and regulators. Technological advancements in analytical methods, such as high-performance liquid chromatography (HPLC) and mass spectrometry, have further enhanced the speed, accuracy, and cost-effectiveness of testing services. However, the market faces challenges, including high costs associated with advanced testing equipment, limited laboratory capacity in emerging markets, and the lack of uniform testing standards worldwide. Despite these hurdles, the cannabis testing market remains a cornerstone of the legal cannabis industry, with continued growth driven by regulatory compliance, increasing consumer demand for quality assurance, and the ongoing expansion of legal cannabis markets globally.

Key Insights Cannabis Testing Market

Several factors are driving the growth of the cannabis testing market: - Expanding legalization of cannabis in medical and recreational markets worldwide. - Increasing regulatory scrutiny and the need for compliance with stringent safety and labeling standards. - Consumer demand for transparency and quality assurance in cannabis products. - Technological advancements in analytical instruments, enabling faster and more accurate results. - Growth of export markets requiring standardized testing for international trade. The cannabis testing market faces challenges such as: - High capital investment and operational costs for setting up and maintaining advanced laboratories. - Variability in testing regulations across regions, complicating compliance and standardization. - Limited availability of certified reference materials and validated testing methods for newer cannabinoids. - Shortage of skilled personnel with expertise in cannabis testing and analytical chemistry. - Competitive pressure on pricing as more laboratories enter the market.

Cannabis Testing Market Segmentation

By Test Type

Potency Testing

Pesticide Screening

Residual Solvent Screening

Heavy Metal Testing

Terpene Testing

Mycotoxin Testing

Other Test Types

By Technology

Chromatography

Spectroscopy

Other Technologies

By Portability

Standalone

Hand Held Devices

By End User

Testing Laboratories

Drug Manufacturers

Research Institutes

Other End Users

Key Companies Analysed

Thermo Fisher Scientific Inc.

Danaher Corporation

Merck KGaA

SGS Canada Inc.

Eurofins Scientific SE

Agilent Technologies Inc.

Sartorius AG

PerkinElmer Inc.

Shimadzu Corporation

Waters Corporation

Ab Sciex LLC

LGC Limited

Tentamus Group

Phenomenex Inc.

Saskatchewan Research Council (SRC)

Restek Corporation

SC Laboratories

Anresco Labs

Praxis Labs

Accelerated Technology Laboratories Inc.

GreenLeaf Lab

ACT Laboratories

PharmLabs LLC

Abko Labs

BelCosta Labs

Medicinal Genomics

CW Analytical Laboratories Inc

DigiPath Inc

CDX Analytics

Steep Hill Halent Laboratories Inc.

Cannabis Testing 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.

Cannabis Testing 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 — Cannabis Testing market data and outlook to 2034

United States

Canada

Mexico

Europe — Cannabis Testing market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Cannabis Testing market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Cannabis Testing market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Cannabis Testing 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 Cannabis Testing

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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 Cannabis Testing 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 Cannabis Testing Market Report

Global Cannabis Testing market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Cannabis Testing trade, costs, and supply chains

Cannabis Testing market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Cannabis Testing market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Cannabis Testing market trends, drivers, restraints, and opportunities

Porter's Five Forces analysis, technological developments, and Cannabis Testing supply chain analysis

Cannabis Testing trade analysis, Cannabis Testing market price analysis, and Cannabis Testing supply/demand dynamics

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

Latest Cannabis Testing 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*

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