

Global Chromatography in Cannabis Testing Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Chromatography in Cannabis Testing market size was valued at US\$ 2490 million in 2025 and is forecast to a readjusted size of US\$ 6951 million by 2032 with a CAGR of 15.7% during review period.

Chromatography in cannabis testing uses liquid chromatography and gas chromatography as the analytical core. After sample preparation extracts and cleans up target analytes from complex matrices, the method separates and quantifies them to demonstrate accurate potency and meet safety and compliance requirements. In common practice, liquid chromatography is used to quantify major and minor cannabinoids and their acidic forms, avoiding heat driven decarboxylation and degradation so it can support label claim verification and formulation consistency control. Gas chromatography and headspace injection are often used for terpene profiling and residual solvents and other volatile compounds, fitting high volatility risk matrices such as concentrates and vape liquids. For trace contaminants such as pesticide residues and mycotoxins, laboratories more often use LC MS MS (liquid chromatography tandem mass spectrometry) to achieve higher selectivity and lower detection limits, while isotope labeled internal standards are applied to correct matrix effects. Method reliability depends on traceable calibration using reference standards and certified reference materials and on validation workflows in which spiked recoveries and quality control samples are embedded end to end. To improve throughput and consistency, vendors provide integrated solutions ranging from fast sample preparation such as QuEChERS to chromatography and mass spectrometry platforms, as well as method packages and report templates, enabling third party labs and in house QC teams to generate stable COAs (Certificates of Analysis) across multiple matrices and

support regulatory audits and process optimization. Delivery formats include standardized workflows for routine potency testing using HPLC or UHPLC with UV detection and full menu compliance built on combined LC MS MS and GC MS platforms, complemented by columns and method kits to improve method transferability and throughput. Some solutions are moving toward field deployment and lower skill operation, for example portable HPLC systems that standardize sample preparation and analysis steps in software to shorten the time from sampling to results. Because regulatory analyte lists and limits vary by jurisdiction, testing menus typically expand in modules including potency, terpenes, residual solvents, pesticides, and toxins, with traceable calibration and data integrity ultimately supporting COAs and audits.

The technical workflow for chromatography-based cannabis testing is converging on a clear division of labor and a modular 'menu' structure. Potency and cannabinoid profiling are typically built on HPLC or UHPLC, using UV or diode-array detection to deliver stable quantitation of major cannabinoids and their acidic forms, while avoiding heat-driven decarboxylation bias. Volatile analytes are more often handled on GC platforms: terpene profiling supports flavor and formulation differentiation, and headspace GC-MS is commonly used for residual solvents to reduce false positives and to fit high-risk matrices such as concentrates and vape liquids. Trace contaminants such as pesticides and mycotoxins increasingly rely on LC-MS/MS for lower detection limits and higher selectivity, with isotope-labeled internal standards applied to mitigate matrix effects. Because regulatory analyte lists and limits vary by jurisdiction, laboratories generally stack modules—potency, terpenes, residual solvents, pesticides, and toxins—into compliance packages, making method selection and instrument configuration more predictable.

On the supply side, capability is shifting from standalone instruments to end-to-end standardized delivery, aimed at higher throughput and audit-ready operation. Vendors bundle sample preparation, columns and method kits, instrument configurations, and software workflows to emphasize faster method transfer, fewer manual steps, and more consistent results, thereby reducing training burden and rework for third-party laboratories and in-house QC teams. Sample preparation is repeatedly positioned as the key determinant of accurate quantitation: repeatable procedures are built around homogenization, extraction, cleanup, and spiked recoveries, paired with traceable standards and certified reference materials for calibration, and reinforced by QC samples embedded across the entire workflow to satisfy audits. For high-frequency routine programs, the market is moving toward 'fixed menu' solutions that lock down method parameters, reporting templates, and system compatibility, shortening turnaround from sample receipt to COA issuance. Some products are further trending

toward portability and workflow lock-in, using guided software steps to reduce operator variability and to deliver faster cycle times for on-site production support and rapid release.

Manufacturing and go-to-market models are increasingly defined by regionalization alongside globalization, which directly influences delivery stability and localized compliance support. Leading vendors generally adopt multi-country manufacturing and multi-regional supply chains, placing key production nodes across North America, Europe, and Asia to reduce logistics and tariff shocks while strengthening delivery resilience. In parallel, sales and service organizations are commonly structured by region and built on a two-tier model—direct operations in selected countries plus global distribution—so the same chromatography and mass spectrometry platforms can reach more geographies, supported by local teams that align with differing regulatory menus and methodological conventions. In cannabis testing, demand is highly concentrated in jurisdictions with mature regulation and mandatory testing, yet cross-border flows of raw materials and finished products are also pushing quality systems toward global consistency. Competitive advantage is therefore shifting from single-point performance to regional fulfillment, application support, method-kit updates, and data integrity; the vendors that can translate regulatory changes into deployable standard workflows the fastest are more likely to achieve durable stickiness with laboratories and brand owners.

This report is a detailed and comprehensive analysis for global Chromatography in Cannabis Testing market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Chromatography in Cannabis Testing market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Chromatography in Cannabis Testing market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Chromatography in Cannabis Testing market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Chromatography in Cannabis Testing market shares of main players, in revenue (\$ Million), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Chromatography in Cannabis Testing

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Chromatography in Cannabis Testing market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Medicinal Genomics, Hamilton, PerkinElmer, Todaro Robotics, Shimadzu Scientific Instruments, Agilent Technologies, Restek, Agilent Technologies, Waters Corporation, Shimadzu Corporation, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

Chromatography in Cannabis Testing market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Liquid Chromatography

Gas Chromatography

Others

Market segment by Deployment Method

Central Lab Deployment

Portable Deployment

Market segment by Level of Automation

Manual-dominant

Semi-automated

End-to-end Automation

Market segment by Application

Pain Management

Seizures

Sclerosis

Others

Market segment by players, this report covers

Medicinal Genomics

Hamilton

PerkinElmer

Todaro Robotics

Shimadzu Scientific Instruments

Agilent Technologies

Restek

Agilent Technologies

Waters Corporation

Shimadzu Corporation

SCIEX

Thermo Fisher Scientific

PerkinElmer

Phenomenex

Restek

Merck (Sigma-Aldrich)

Sartorius

EST Analytical

SCION Instruments

analyticon instruments gmbh

Cayman Chemical

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Chromatography in Cannabis Testing product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Chromatography in Cannabis Testing, with revenue, gross margin, and global market share of Chromatography in Cannabis Testing from 2021 to 2026.

Chapter 3, the Chromatography in Cannabis Testing competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Chromatography in Cannabis Testing market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Chromatography in Cannabis Testing.

Chapter 13, to describe Chromatography in Cannabis Testing research findings and conclusion.

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