

The Right Choice When Your Lab's Reputation Is at Stake

Agilent cannabis and hemp testing solutions



Partner with Agilent for consistent start-to-finish testing in a rapidly changing industry

With cannabis and hemp testing, it's easy to feel overwhelmed by evolving regulations, customer demands, and challenging matrices. Fortunately, you don't have to overcome these obstacles alone.

Agilent has developed a total package of analytical methodologies—from sample preparation to reporting—for ensuring the potency and safety of cannabis and cannabinoid products.

What's more, we guarantee your peace-of-mind. If we cannot fix an instrument covered by an Agilent service plan—regardless of manufacturer—we'll replace it with an Agilent equivalent instrument, free.

Together, we can help your lab:

- Maintain data integrity and ensure accurate product labeling.
- Get a headstart with Agilent eMethods and consumable kits.
- Reduce downtime and achieve the throughput you need to keep up with sample volume.
- Develop, implement, and optimize methods with guidance from our team of cannabis application experts.

Agilent analytical workflows: Designed and tested for cannabis and cannabinoid products

Whether you are a startup or a high-throughput lab, Agilent is your single source for confident cannabis testing.

Sample preparation

Method development

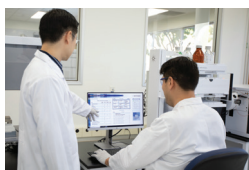
Analysis

Results

Service and support



Chemical standards, SPE, vials, consumable kits



eMethods* and application consulting



Instruments



Software



CrossLab services

Fast-track your cannabinoid testing: www.agilent.com/chem/cannabis

Workflow	Analytical instruments	Application notes
Pesticides and mycotoxins testing To ensure consumer safety and comply with regulatory standards, potentially harmful pesticides and mycotoxins in cannabis crops and extracts must be monitored.	– Agilent Intuvo 9000 or 8890 GC and 7010B triple quadrupole GC/MS – Agilent 1260 Infinity II HPLC and 6470 or Ultivo triple quadrupole LC/MS	– Residual pesticides/mycotoxins from the Canadian target list – Agilent Intuvo 9000-7010 GC/MS/MS analysis of challenging pesticides – Pesticides/mycotoxins per U.S. state recreational cannabis regulations
Potency testing Countries and states that have legalized the use of cannabis or cannabinoid products require testing and quantification for potency, quality, and safety before retail distribution.	– Agilent 1260 Infinity II LC – Agilent Intuvo 9000 and 5977B GC/MS system	– Potency testing using the Agilent 1220 Infinity II LC system – Cannabinoids in industrial hemp using the Agilent 1220 Infinity II LC system – Quantification of THC and CBD in cannabis-infused chocolate – Review of derivatization chemistries for the analysis of cannabinoids using GC–MS
Terpenes testing Terpenes contribute to the flavor and fragrance of cannabis, and are used to characterize cannabis cultivars.	– Agilent Intuvo 9000 or 8990 GC and 5977B GC/MS system	– Terpenes analysis using the Agilent Intuvo 9000/5977B GC/MS system
Heavy metals testing To ensure consumer safety, cannabis products must be rigorously tested for contamination with heavy metals such as arsenic, lead, cadmium, and mercury.	– Agilent 7850 or 7800 ICP-MS	– Multi-Element Analysis of Cannabis and Hemp using ICP-MS
Residual solvents testing Cannabis extracts, distillates, and concentrates may contain solvents used during extraction. Residual solvent testing is required to ensure that these chemicals do not exceed levels defined by regional legislation.	– Agilent Intuvo 9000 and 5977B or 8890 GC/MS system with a 7697A headspace sampler	– Novel residual solvent analysis of cannabinoid products
Microbial testing Pathogens in cannabis pose a potential threat to consumers, so products must be tested to ensure safety and comply with regulatory standards.	– Agilent AriaMx qPCR instrument – Agilent Bravo liquid handling platform – Medicinal Genomics kits	– Microbial testing: combining medicinal genomics extraction with qPCR

Additional resources:

- [Cannabis consumables kits and analytical products](#)
- [Cannabis testing standards](#)
- [Cannabis and hemp testing consumables ordering guide](#)
- [Cannabis and hemp testing eMethods*](#)

*Cannabis eMethods only sold in North America

Agilent products and solutions are intended to be used for cannabis quality control and safety testing in laboratories where such use is permitted under state/country law.
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This information is subject to change without notice.

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