

Your HPLC Roadmap

For Cannabis and Hemp Potency Testing





Meet the Gold Standard for Cannabinoid Analysis

From the optimization of crop value to the manufacture of high-quality goods, a lot depends on precise knowledge of the cannabinoid content of cannabis, hemp, and related products. But traditional methods such as visual inspection just aren't enough; succeeding in a competitive market means looking deeper and more accurately into the biochemical makeup of these plants.

This eBook gathers a wealth of Agilent HPLC resources in one place. Use it as a guide on your journey through the practical aspects and benefits of putting gold-standard HPLC analysis of cannabinoids to work in your operation.

How Do I Use This Ebook?



Resources for every stage of your new instrument journey are just a click away

Plan for your system's arrival, and gain the knowledge you need to maximize uptime and accuracy. To instantly access literature, webinars, videos, and more, simply choose one of these topics, or use the navigation bar at the bottom of the page.

» [Choose your instrument](#)

Select the right configuration and create an implementation plan.

» [Prepare for delivery](#)

Explore ways to make the transition to your new instrument productive.

» [Install your new system](#)

Get primed for the latest technology and get to know your new lab asset.

» [Begin system operations](#)

Quickly move from first run to production-level activity.

» [Prepare the sample](#)

Successfully prepare your samples and reach new levels of analytical confidence.

» [Optimize your workflow](#)

Improve system performance and ensure better results.

» [Maximize your return on investment](#)

Check out the ways that Agilent can partner with you for years to come.

**Get answers. Share insights.
Build connections.**



Find answers and insights in the [Agilent Community](#), which is more than 10,000 members strong. There, you can review curated support materials, ask questions, and get notified about new resources relevant to your work.

Choose Your Instrument



We recommend starting with the right hardware and software to make your new instrument a natural part of your lab.

Learn about the application

Learn potency testing tips and tricks from past expert-led events.

- [Musings from the Cannabis Corner](#)
- [Expert Advice for Overcoming the Good, the Bad, and the Ugly in Cannabis Potency Testing](#)
- [Navigating the Cannabis Matrix – Potency Analysis Tips and Tricks](#)
- [Tips and Tricks videos for Potency Testing](#)

Create your implementation plan

Choose your CrossLab Start Up pathway.

- [CrossLab Start Up flyer](#)

Prepare now for preventive maintenance, software troubleshooting, or service.

- [Agilent CrossLab services and portfolio plans](#)
- [Warranty terms](#)

– Talk to your sales representative about **enhanced extended warranty**, available for certain instruments.

Get compliant and minimize your audit risk.

- [Lab compliance consulting](#)
- [Custom validation services](#)

Consider budget-friendly options

Acquire your next instrument without the capital expenditure.

- [Agilent Financial Solutions](#)

Get Agilent quality at an affordable price.

- [Agilent Certified Pre-Owned Instruments](#)

Estimate cost-per-sample for cannabinoids potency testing

- [Use the ROI calculator](#)

Prepare for Delivery



Great—you've ordered your instrument - now, prepare your space and your team to make the introduction run smoothly.

Set up your Agilent account

Read your welcome letter. You will receive a customized letter with key information about your order and what to expect.

Create an Agilent.com account—your one-stop resource for all your Agilent information.

[🌐 Create your account](#)

Watch your email inbox for information about the My Order portal. It lets you review your order, track shipments, see site preparation checklists, and more.

Prepare for delivery

Watch this video for general site preparation guidance.

[▶ Agilent Infinity LC Customer Site Preparation](#)

Follow the site preparation instructions for your instrument or software.

[📄 Agilent InfinityLab LC](#)

[📄 Agilent 1220 Infinity/Infinity II LC](#)

[🌐 OpenLab CDS](#)

Note: The My Order portal, along with your Agilent field service representative, may have specific site preparation information for your configuration.

Train your staff

Build your team's confidence and skills. Our LC system courses will prepare everyone in your lab for when your Agilent field service representative arrives.

Prior to your installation, complete the Agilent University curriculum for the 1260 HPLC.

[🌐 Your learning path](#)

Get online, in-classroom, or onsite training for instrument operation, maintenance, and troubleshooting.

[🌐 Agilent education](#)

Install Your New System



Let Agilent handle your instrument unboxing and initial setup with our installation service. We can also help you and your team get to know your new instrument. Be sure to review all the documentation—electronic and paper—that accompanies your new system.

For instrument installation

Download and review the installation guides, user manuals, and other support documents.

 [Agilent 1220 Infinity II LC system](#)

 [Agilent 1260 Infinity II Binary LC system](#)

 [InfinityLab LC Method Development Solutions](#)

 [OpenLab CDS](#)

We encourage you to be present during installation, so you can learn more about your new system.

For consumables

Order cannabis potency testing consumables kits. Having all the necessary parts in place is essential for potency testing – learn about the key consumables you will need.

 [CSD Quick Reference Guide](#)

 [CSD potency kits and walk-through procedure](#)

 [LC columns and supplies](#)

Order cannabinoid standards and store them at the indicated temperature.

 [Cannabinoid chemical standards](#)

For software

View these short how-to videos to review OpenLab CDS software operation and features.

 [OpenLab in Action video guides](#)

Learn your software

Your software is your HPLC. To ensure the best experience, register for these important tutorials on how OpenLab software works prior to your installation.

- Control Panel and Data Acquisition
- Data Analysis
- Custom Calculator and Reporting

 [Register for all three](#)

Begin System Operations



Moving from instrument installation to reliable results is a journey, and Agilent can help you every step of the way.

First Run Assist

Gain confidence with your new system and get your questions answered as they arise. Your Agilent field service engineer can guide you through an initial sample introduction, instrument operation, and report viewing.

[!\[\]\(83f22ed94ec5517769dd76d702c6bfd8_img.jpg\) CrossLab Start Up First Run Assist](#)

[!\[\]\(8d0f0e0fe25b320c33272c52aec1fbca_img.jpg\) Expert Implementation for Cannabis Potency Testing](#)

A helping hand

The Agilent Community is the place to collaborate on Agilent products and applications, find in-depth documents and videos, and develop professional relationships.

[!\[\]\(3cb60d42b10e53f9522bb0b392c1c4cd_img.jpg\) Agilent Community](#)

[!\[\]\(d0262bbe9d2356661a2e89321dfcc781_img.jpg\) Agilent Knowledge Portal](#)

Support documents and expert help are just a few clicks away.

[!\[\]\(c444627dab9fee9a1550c053ffaaaae2_img.jpg\) Agilent Resource Center](#)

[!\[\]\(0d7ca0919e6c47bbd874bfa0189fe22e_img.jpg\) Technical support](#)

[!\[\]\(274fd520e03b61c1b9ffc861754cacdc_img.jpg\) Troubleshooting guide](#)

Safety first: Learn how to create a healthy, ergonomic, and sustainable lab environment.

[!\[\]\(06a315363e7801bba8c7489a6694af19_img.jpg\) Health and safety aspects in an HPLC workflow](#)

Training options

Available courses from Agilent University provide easy access to the training needed to understand and operate your new system.

[!\[\]\(8aa05b4b06c05d58ddd90cdbf335b307_img.jpg\) Agilent Infinity LC Series OpenLab CDS ChemStation for 3D Operators](#)

[!\[\]\(465772ce2fc0e39b7001e2580b915cc2_img.jpg\) Agilent Infinity Series HPLC with OpenLab Essential and Advanced Operation](#)

[!\[\]\(dc0c40d45c42e86bc0669168926f812c_img.jpg\) Agilent Infinity I and II Series Troubleshooting and Maintenance](#)

[!\[\]\(b58c23cb5aab1cd63092eda333892cb9_img.jpg\) LC column educational webinar series](#)

Prepare the Sample



Great results begin with successful sample preparation. It extends column lifetime, reduces rework, and minimizes interferences that can jeopardize your separation, detection, and quantification.

Sample preparation techniques

Reliably extract and concentrate samples from complex matrices.

-  [Filtration Makes All the Difference](#)
-  [Techniques for Avoiding Unexpected Problems in LC and GC Analysis](#)

Sample preparation selector tools

From phospholipid removal to QuEChERS to SPE – we'll help you find the right product for your application.

-  [Find the right separation technique for your workflow](#)

Watch the webinar version of our protocols

-  [Accurate and Simple Quantification of THC and CBD in Beverages Containing Microemulsions](#)
-  [Simple, Accurate and Reliable Quantification of THC and CBD in Cannabis-Infused Chocolate Edibles, baked goods and Candies](#)
-  [Dedicated and Verified Cannabinoid Potency Testing using the Agilent 1220 Infinity II HPLC System](#)

Cannabis sample preparation protocols

Before running potency samples, review the optimized sample preparation method for your sample type. Bio LC columns for CQA analyses

-  [Flowers](#)
-  [Chocolate and fatty products](#)
-  [Gummies and hard candies](#)
-  [Beverages](#)
-  [Potency Testing FAQ](#)

Optimize Your Workflow



Improve system performance, ensure better results, and process more samples without unplanned maintenance and recalibration.

Know the keys to LC excellence

-  [Unstable solvents best practices](#)
-  [Agilent LC system best practices](#)
-  [Calibration reference materials](#)

Select consumables suitable for your application. Save time and effort identifying the right products for your application.

-  [Agilent Resource Center](#)
-  [Autosampler vials selector tool](#)
-  [HPLC supplies](#)

Improve your method, applications, and reporting

Partner with Agilent CrossLab application theory leaders to maintain, optimize, implement, or develop your workflows to their fullest potential.

-  [Agilent CrossLab method and applications development](#)
-  [Focused solutions](#)

OpenLab software reporting tools and training

-  [OpenLab CDS Reporting technical note](#)
-  [OpenLab CDS reporting](#)
-  [OpenLab CDS reporting templates](#)

OpenLab data storage compliance recommendations

-  [Hemp Testing: Laboratory Compliance](#)
-  [Cannabis Testing: Laboratory Compliance](#)

Connect your lab

Receive automatic notifications when it's time to replace consumables or schedule maintenance.

-  [Smart Alerts software](#)

Simplify, optimize, and transform every lab operation—from inventory management to asset monitoring.

-  [Agilent CrossLab Enterprise Services](#)

Do you have a centralized lab or shared facilities? Streamline your resource reservation, equipment access control, cost tracking, and more.

-  [iLab operations software](#)

Maximize Your Return on Investment



Congratulations, your Agilent system will be with you for many years to come. To continue making the most of your investment, check out these options and resources.

Instrument repair

Get your instrument covered for maintenance, repairs, time-and-materials costs, and more.

[!\[\]\(4cafc60cd39da821525d7c6589540296_img.jpg\) Agilent CrossLab service plans](#)

See how Agilent preventive maintenance can yield 24% fewer repairs, 31% lower repair costs, and 2.4 fewer days of downtime per year.

[!\[\]\(f80254b170d0ecdc443847276e625120_img.jpg\) Preventive maintenance](#)

When an instrument breaks down, choose the most flexible option to get your lab up and running again.

[!\[\]\(8a8ea273bba45b658cf4779d37ab61e8_img.jpg\) On-demand repair services](#)

Ownership resources

Instrument problem? View information about troubleshooting, maintenance, applications, and more by accessing the Agilent Community and the Agilent Knowledge Portal.

[!\[\]\(5a09a9dfd2f1e923eccb8c24714edf51_img.jpg\) Agilent Community](#)

[!\[\]\(07e95c4c760ed8b72579d140ce510c89_img.jpg\) Agilent Knowledge Portal](#)

[!\[\]\(4e9db7091c22bfa9fd8343485308f15c_img.jpg\) Troubleshooting guide](#)

Diagnose your LC system

[!\[\]\(eb1074bfd91059c9cff57cf6b5c22a5b_img.jpg\) Lab Advisor](#)

[!\[\]\(e11f4c47008b23dfe2f4f7c6bb9034d1_img.jpg\) Firmware](#)

Educational opportunities

Properly trained staff members improve lab performance. Agilent University offers a range of educational options—from on-demand videos (including free content) to custom, hands-on training at your site.

[!\[\]\(cab4bf952ad41dda9681cfcbefe1a76e_img.jpg\) Agilent education and training](#)

Look for upcoming Agilent seminars and user group meetings in your area. We also look forward to meeting you at industry trade shows and symposiums.

[!\[\]\(276e638389c99b8d70cec5b1b95df546_img.jpg\) Agilent events](#)

View on-demand webinars on many topics.

[!\[\]\(f29f0046b33c1b22be08116509a1ae48_img.jpg\) Agilent webinars](#)

[!\[\]\(8a9ca97fc4a7737b36ddfa4d17ebca8c_img.jpg\) LC column educational webinar series](#)



Keep Your Lab Productive and Compliant

[Compliance and qualification](#)

Legalization of cannabis and hemp at the state level is relatively new, and regulations aimed at safeguarding and archiving analytical data are still maturing. Partner with Agilent to stay-up-to-date with data integrity and equipment qualification/calibrations throughout its life cycle.

[Agilent University](#)

Agilent University offers flexible, cost-effective training options to help you plan, prioritize, and manage lab resources. Your team will gain insights for boosting efficiency and minimizing downtime. Plus, you can choose the training format that suits you best—including in person, virtual, and online.

[CrossLab service plans](#)

Maintain instrument performance with Agilent CrossLab service plans—available for both Agilent and non-Agilent instruments. They enable your lab to reduce downtime, produce accurate, reliable data, and comply with industry regulations. Select plans also cover preventive maintenance, which is proven to lower repair costs and save days of downtime each year.

Learn more:

www.agilent.com/chem/cannabis

Talk to a representative:

1-800-227-9770

cannabis.inquiries@agilent.com

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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