

Columns and Supplies Ordering Guide: Cannabis Flower and Hemp

Confidently Test the Potency of Cannabis Products

From extracts to final derived cannabis products, Agilent columns and supplies can help you effectively perform key cannabis testing applications.

Cannabis and hemp potency testing

Regions that have legalized medicinal or recreational marijuana use typically require cannabinoid quantitation for total tetrahydrocannabinol (THC) and cannabidiol (CBD). The most common analytical procedure to identify and quantify cannabinoids is high performance liquid chromatography (HPLC) with ultraviolet (UV) detectors. Agilent's HPLC-based Potency Consumables Kit contains HPLC columns and enough sample preparation supplies needed to analyze 400 cannabis flower and hemp samples.

This guide includes links for the various kits as well as the recommended columns and supplies within each kit for the different analysis.

These products can be used to run the methods described in the following application notes and e-Methods:

- 5991-9285EN Dedicated Cannabinoid Potency Testing Using the Agilent 1220 Infinity II LC System (available as e-Method G5277#010 or M5650AA)
- 5994-0912EN Quantification of Cannabinoids in Industrial Hemp Using the Agilent 1220 Infinity II LC System (available as e-Method G5277#020 or M5651AA)

Agilent e-Methods are designed to accelerate your startup time by condensing the vast amounts of technical information and optimized analytical methods into a ready-to-run, downloadable, digital information package.

This guide provides a list of all the columns and supplies required to run the e-Methods associated with the application notes. The M###AAA methods can be purchased online, while the corresponding G#### can be purchased through your local sales and distribution channel.

Utilize the *MyList* links to add items under each category to your *Favorite Products* page in the Agilent online store.

Then, enter the quantities for the products you need. Your list will remain under your *Favorite Products* for future orders.

If this is your first time using the *Favorite products* page, you will be asked to enter your email address for account verification. If you have an existing Agilent account, you will be able to log in. However, if you don't have a registered Agilent account, you will need to register for one. This feature is valid only in regions that are e-commerce enabled. All items can also be ordered through your regular sales and distributor channels.

Agilent cannabis and hemp potency testing



Sample Preparation and Sample Containment

View MyList for the items in the table below:

Description	Part Number
Captiva premium syringe filter, regenerated cellulose (RC) membrane, 4 mm diameter, 0.45 µm pore size, 100/pk	5190-5107
Captiva disposable syringe, 5 mL, 100/pk	9301-6476
Ceramic homogenizers for 50 mL tubes, 100/pk	5982-9313
Centrifuge tubes, 50 mL, 25/pk	5610-2049
Cap, screw, green, PTFE/red silicone septa, 100/pk	5182-0718
Vial, screw top, amber, write-on spot, deactivated (silanized), certified, 2 mL, 100/pk	5183-2072
Vial insert, 250 µL, deactivated glass with polymer feet, 100/pk	5181-8872

Potency Standards

View MyList for the items in the table below:

Description	Part Number
Cannabinoid Mix A - CBD, CBN, delta9-THC	5190-9430
Cannabinoid Mix B - THCA, CBDA, CBG	5190-9429
Cannabinoid Mix C - CBDV, CBGA, CBC	5190-9428
Cannabinoid Mix D - THCV, delta8-THC	5190-9427
Cannabidivarin (CBDV)	5191-3920
Tetrahydrocannabinol (delta8-THC)	5191-3921
delta8-Tetrahydrocannabinol (delta8-THC)	5191-3922
Cannabigerol (CBG)	5191-3923
Cannabidiol (CBD)	5191-3924
delta9-Tetrahydrocannabinolic acid (THCA)	5191-3925
Cannabinol (CBN)	5191-3926
Cannabigerol acid (CBGA)	5191-3927
Cannabichromene (CBC)	5191-3928
delta9-Tetrahydrocannabinol (delta9-THC)	5191-3929
Cannabidiolic acid (CBDA)	5191-3930

GC Columns and Supplies

View MyList for the items in the table below:

Description	Part Number
InfinityLab Poroshell 120 EC-C18, 3.0 × 50 mm, 2.7 μm, LC column	699975-302
InfinityLab Poroshell 120 EC-C18, 3.0 mm, 2.7 μm, UHPLC guard, 3/pk	823750-911
Formic acid, 5 mL	G2453-85060
InfinityLab Ultrapure LC/MS acetonitrile	5191-4496
InfinityLab Ultrapure LC/MS methanol	5191-4497
InfinityLab Ultrapure LC/MS water	5191-4498
InfinityLab Quick Connect assembly, 0.12 x 105 mm, for connection at column inlet on UHPLC systems	5067-5957
InfinityLab Quick Connect assembly, 0.17 x 105 mm, for connection at column inlet on HPLC systems	5067-6166
InfinityLab Quick Turn fitting, for connection between column outlet and detector	5067-5966
InfinityLab Quick Turn capillary, 0.12 x 280 mm, for column outlet	5500-1191
InfinityLab Stay Safe starter kit, including 3 caps GL45 1 port and 1 cap GL45 2 ports, 4 venting valves with time strips and 4 fittings 3.2 mm	5043-1222
InfinityLab solvent filtration assembly includes glass funnel, 250 mL, membrane holder glass base, glass flask, 1 L, and aluminum clamp	5191-6776*
Regenerated cellulose membrane 47 mm, 0.20 µm 100/pk	5191-4340*

* Solvent filtration assembly and associated filter membranes are not recommended for use with InfinityLab Ultrapure LC/MS solvents.

Agilent provides guidance in helping you meet your analytical challenges. Both customized and prepackaged (p/n R4502A) application services for cannabis potency testing are available. Learn more

Potency consumables kits

Order your kit now, using the following link: Cannabis and Hemp Potency Consumables Kit p/n 5610-2036

Agilent CrossLab: Supporting your success

CrossLab is an Agilent capability that integrates services and consumables to support workflow success, improve productivity, and enhance operational efficiency. Through CrossLab, Agilent strives to provide insight in every interaction to help you optimize the return you get on your instrument investment and achieve your business goals. Agilent CrossLab supports Agilent instruments and select non-Agilent instruments as well. We also provide consultative support for workflow enablement, lab analytics, regulatory compliance, inventory management, and asset management, including relocation services.

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