

Confidently Test the Quality of Cannabis Products

Agilent columns and supplies recommended for analyzing 40 common mono- and sesquiterpenes found in Cannabis.

Terpene analysis

Terpenes contribute to the flavor and fragrance of cannabis and have been used to identify and characterize cannabis cultivars. Regularly reproducing the same terpene profile is key to product consistency.

The most common approach to terpenes analysis is headspace gas chromatography (GC) with flame ionization detection (FID), mass spectrometry (MS) or both (FID/MS). This approach, however, may result in loss of sesquiterpenoid like alpha-bisabolol in high-potency cannabis samples. Terpene analysis using liquid injection overcomes this problem.

This guide includes links for the recommended columns and supplies required for running the method described in the following application note and e-method:

- [5994-2032EN](#) Terpenes Analysis in Cannabis Products by Liquid Injection Using the Agilent Intuvo 9000/5977B GC/MS System (available as e-method G5282AA#010 or [M5659AA](#))

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.

How to use this ordering guide

Utilize the *MyList* links to add item under each category to your *Favorite Products* page in the [Agilent online store](#).

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Residual solvents analysis of cannabinoid products



Intuvo Columns and Supplies

View [MyList](#) for the items in the table below:

Description	Part Number
DB-Select 624 Ultra Inert column (30 m x 0.25 mm x 1.4 µm)**	122-0334UI-INT
Polyimide gasket, gasket, 5/pk	5190-9072
Intuvo MMI Guard Chip, 2/pk	G4587-60665
Mid column backflush chip	G4588-60721
Flow chip, detector tail, HES MS	G4590-60109
Compression bolt, Intuvo	G4581-60260

**Qty=2 required for setup

GC Columns and Supplies for 7890/8890/8860*

View [MyList](#) for the items in the table below:

Description	Part Number
DB-Select 624 Ultra Inert column (30 m x 0.25 mm x 1.4 µm)**	123-0334UI
Gold plated inlet seal with washer, Ultra Inert, 10/pk	5190-6145
Column nut, collared, self tightening, inlet/detector	G3440-81011
Column nut, collared, self tightening, MSD	G3440-81013
Ferrule, 0.4 mm id, 15% graphite/85% Vespel, 0.1–0.25 mm column, 10/pk	5181-3323

*The method has not been tested on these instruments

**Qty=2 required for setup

Gas Purification System

View [MyList](#) for the items in the table below:

Description	Part Number
Gas clean carrier gas kit for 7890	CP17988
Gas clean carrier gas kit for 8890/8860	CP179880
Gas clean carrier gas purifier replacement cartridge	CP17973
Gas kit for Intuvo	CP17995

Standards

View [MyList](#) for the items in the table below:

Description	Part Number
Terpenes Kit	WRK-105
Universal Terpene Mix 1 for Cannabis	TPM-105-1
Universal Terpene Mix 2 for Cannabis	TPM-100-1
Universal Terpene Mix 3 for Cannabis	TPM-110-1
Nevada Terpene Mix for Cannabis testing	SNV-105-1

GC/MS and Autosampler Supplies

View [MyList](#) for the items in the table below:

Description	Part Number
Inlet liner, Ultra Inert, split, low pressure drop, 4 mm id, 1/pk	5190-2295
Inlet liner, Ultra Inert, split, low pressure drop, 4 mm id, 5/pk	5190-3165
Inlet septa, bleed and temperature optimized (BTO), Non-Stick, 11 mm, 50/pk	5183-4757
ALS syringe, blue line, 10 µL, fixed needle, 23/42/cone, PTFE-tip plunger	G4513-80220
High temperature filament, EI ion source	G7005-60061
9 mm GC/MS extractor lens	G3870-20449

FID Supplies

View [MyList](#) for the items in the table below:

Description	Part Number
FID jet, universal fit, 0.29 mm (0.011 inch) id capillary	5200-0176

Vials and Caps

View [MyList](#) for the items in the table below:

Description	Part Number
Vials screw cap, 1.8 mL	5188-6535
12 mm screw cap, green, PTFE/silicone/PTFE septa, 100/pk	5182-0724

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