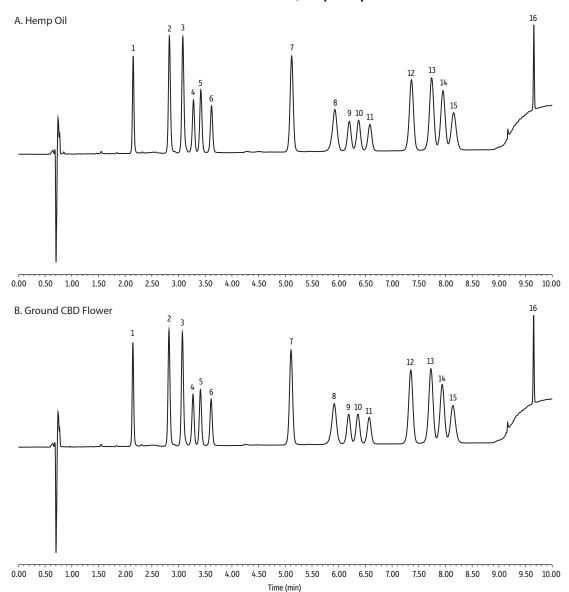
Potency Method for 16 Cannabinoids in Matrix on 150 x 3 mm, 2.7 µm Raptor ARC-18



LC FF0620

Standard/Sample

R٠

		tr (min)
1.	Cannabidivarin (CBDV)	2.153
2.	Cannabidiolic acid (CBDA)	2.832
3.	Cannabigerolic acid (CBGA)	3.084
4.	Cannabigerol (CBG)	3.285
5.	Cannabidiol (CBD)	3.424
6.	Tetrahydrocannabivarin (THCV)	3.624
7.	Cannabinol (CBN)	5.128
8.	Cannabinolic acid (CBNA)	5.937
9.	Exo-Tetrahydrocannabinol (exo-THC)	6.210
10.	Δ9-Tetrahydrocannabinol (Δ9-THC)	6.383
11.	Δ8-Tetrahydrocannabinol (Δ8-THC)	6.596
12.	(6aR,9S)-delta-10-Tetrahydrocannabinol ((6aR,9S)-Δ-10-THC)	7.375
13.	(6aR,9R)-delta-10-Tetrahydrocannabinol ((6aR,9R)-Δ-10-THC)	7.755
14.	Cannabichromene (CBC)	7.966
15.	δ-9-Tetrahydrocannabinolic acid-a (THCA-A)	8.166
16.	Tetrahydrocannabinol acetate (THCO acetate)	9.658
Column Raptor ARC-18 (cat.# 9314A6E)		
ь.	· 150 30 ID	

Dimensions: 150 mm x 3.0 mm ID Particle Size:

2.7 μm 90 Å Pore Size: Raptor ARC-18 EXP guard column cartridge 5 mm, 3.0 mm ID, 2.7 µm (cat.# 9314A0253) Guard Column:

Temp.: 30 °C

Cannabidiol (CBD) (cat.# 34011) Cannabidiolic acid (CBDA) (cat.# 34094) d9-Tetrahydrocannabinol (d9-THC) (cat.# 34067) d8-Tetrahydrocannabinol (d8-THC) (cat.# 34090) d9-Tetrahydrocannabinolic acid A (THCA-A) (cat.#
34111) Cannabidivarin (CBDV) (cat.# 34123)
Cannabigerol (CBG) (cat.# 34091)
Tetrahydrocannabivarin (THCV) (cat.# 34100)
Cannabigerolic acid (CBGA) (cat.# 34135) Cannabinol (CBN) (cat.# 34010)
Cannabichromene (CBC) (cat.# 34092)
Cannabinolic acid (CBNA) (cat.# 34138)
Compounds not present in these mixes were obtained separately.

Diluent: 25:75 Water:acetonitrile 50 ppm Conc.: Inj. Vol.: 3 µL **Mobile Phase**

Water, 6 mM ammonium formate, 0.1% formic acid Acetonitrile, 0.1% formic acid

Time (min)	Flow (mL/min)	%A	%В
0.00	0.8	30	70
8.00	0.8	26	74
8.01	0.8	0	100
10.00	0.8	0	100
10.01	0.8	30	70
12.00	0.8	30	70

Detector Flow Cell Size: Instrument Sample Preparation

UV/Vis @ 228 nm 500 nL Waters ACQUITY UPLC H-Class A. Hemp oil was prepared by aliquoting 50 μL of oil and adding 950 μL of acetonitrile. After vortexing for 30 seconds, 750 µL were transferred to a vial and 250 µL of water were added. The sample was vortexed, a 20-fold dilution was performed, and analytes were spiked at 50 ppm.

B. Ground CBD flower was prepared by weighing 500 mg in a centrifuge tube and extracting with 10 mL of 80:20 methanol:water. Samples were vortexed for 15 seconds and sonicated for 5 minutes (3 cycles) and then centrifuged at 4000 rpm for 5 minutes. Supernatant was diluted 50-fold and all analytes were spiked at 50 ppm, except CBDA which was measured at endogenous levels.

All samples were prepared in a 2 mL vial (cat.# 21142) and capped with a short screw cap (cat.# 24498).

