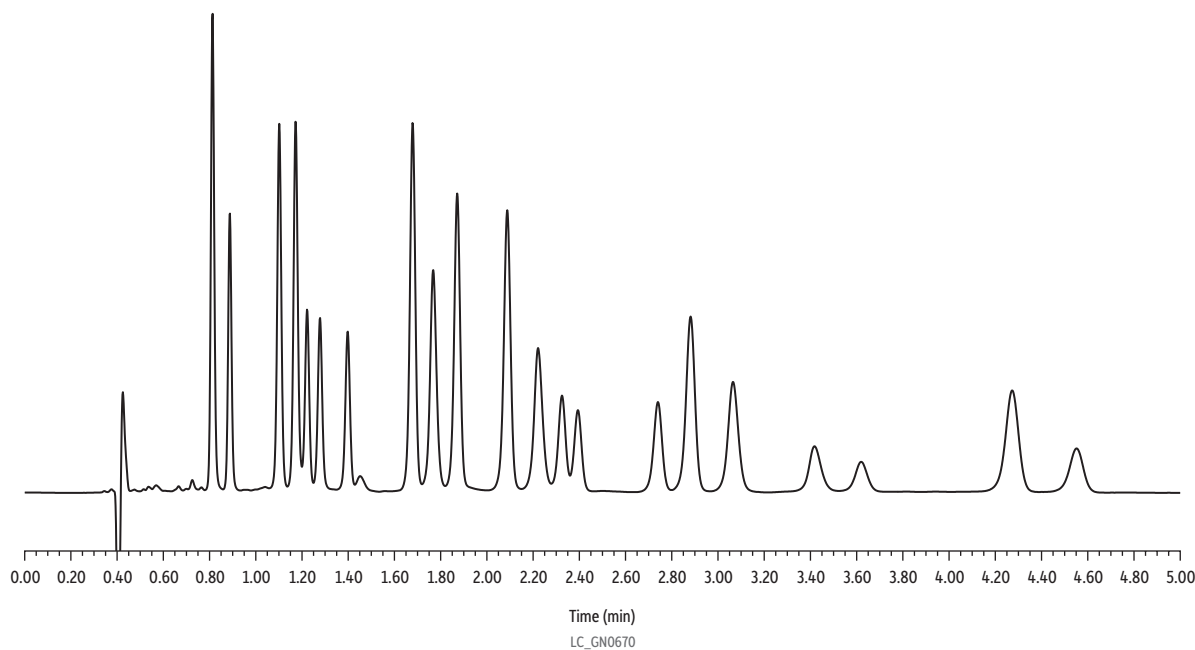


UHPLC Analysis of 21 Cannabinoids on Raptor ARC-18 1.8 µm by LC-UV

- Total cycle time of <5 minutes.
- Baseline resolves 21 cannabinoids.
- Simple, easily transferable isocratic method.



Peaks	tr (min)	Peaks	tr (min)	Peaks	tr (min)
1. Cannabidivarinic acid (CBDVA)	0.813	8. Cannabichromevarin (CBCV)	1.679	15. Cannabicyclol (CBL)	2.740
2. Cannabidivarin (CBDV)	0.888	9. Tetrahydrocannabivarinic acid (THCVA)	1.768	16. Cannabichromene (CBC)	2.882
3. Cannabidiolic acid (CBDA)	1.102	10. Cannabinol (CBN)	1.872	17. Tetrahydrocannabinolic acid A (THCA-A)	3.065
4. Cannabigerolic acid (CBGA)	1.172	11. Cannabidiphorol (CBDP)	2.088	18. Cannabichromenic acid (CBCA)	3.418
5. Cannabigerol (CBG)	1.222	12. Cannabinolic acid (CBNA)	2.222	19. Cannabicyclic acid (CBLA)	3.620
6. Cannabidiol (CBD)	1.278	13. Δ9-Tetrahydrocannabinol (Δ9-THC)	2.325	20. Tetrahydrocannabiphorol (THCP)	4.273
7. Tetrahydrocannabivarin (THCV)	1.398	14. Δ8-Tetrahydrocannabinol (Δ8-THC)	2.394	21. Cannabicitran (CBT)	4.552

Column Raptor ARC-18 (cat.# 931421E)
 Dimensions: 100 mm x 3.0 mm ID
 Particle Size: 1.8 µm
 Pore Size: 90 Å
 Guard Column: UltraShield UHPLC precolumn filter, 0.2 µm frit (cat.# 25809)
 Temp.: 30 °C

Sample
 Cannabidivarinic acid (CBDVA) (cat.# 34134)
 Cannabidivarin (CBDV) (cat.# 34123)
 Cannabidiolic acid (CBDA) (cat.# 34094)
 Cannabigerolic acid (CBGA) (cat.# 34135)
 Cannabigerol (CBG) (cat.# 34091)
 Cannabidiol (CBD) (cat.# 34011)
 Tetrahydrocannabivarin (THCV) (cat.# 34100)
 Cannabinol (CBN) (cat.# 34010)
 d9-Tetrahydrocannabinol (d9-THC) (cat.# 34067)
 d8-Tetrahydrocannabinol (d8-THC) (cat.# 34090)
 Cannabicyclol (CBL) (cat.# 34130)
 Cannabichromene (CBC) (cat.# 34092)
 d9-Tetrahydrocannabinolic acid A (THCA-A) (cat.# 34111)
 Compounds not present in these mixes were obtained separately.

Diluent: Methanol
Conc.: 50 ppm
Inj. Vol.: 1 µL

Mobile Phase
 A: Water, 5 mM ammonium formate, 0.1% formic acid
 B: Acetonitrile, 0.1% formic acid

Time (min)	Flow (mL/min)	%A	%B
0.00	1	25	75
5	1	25	75

Detector Instrument UV/Vis @ 228 nm
 UHPLC

