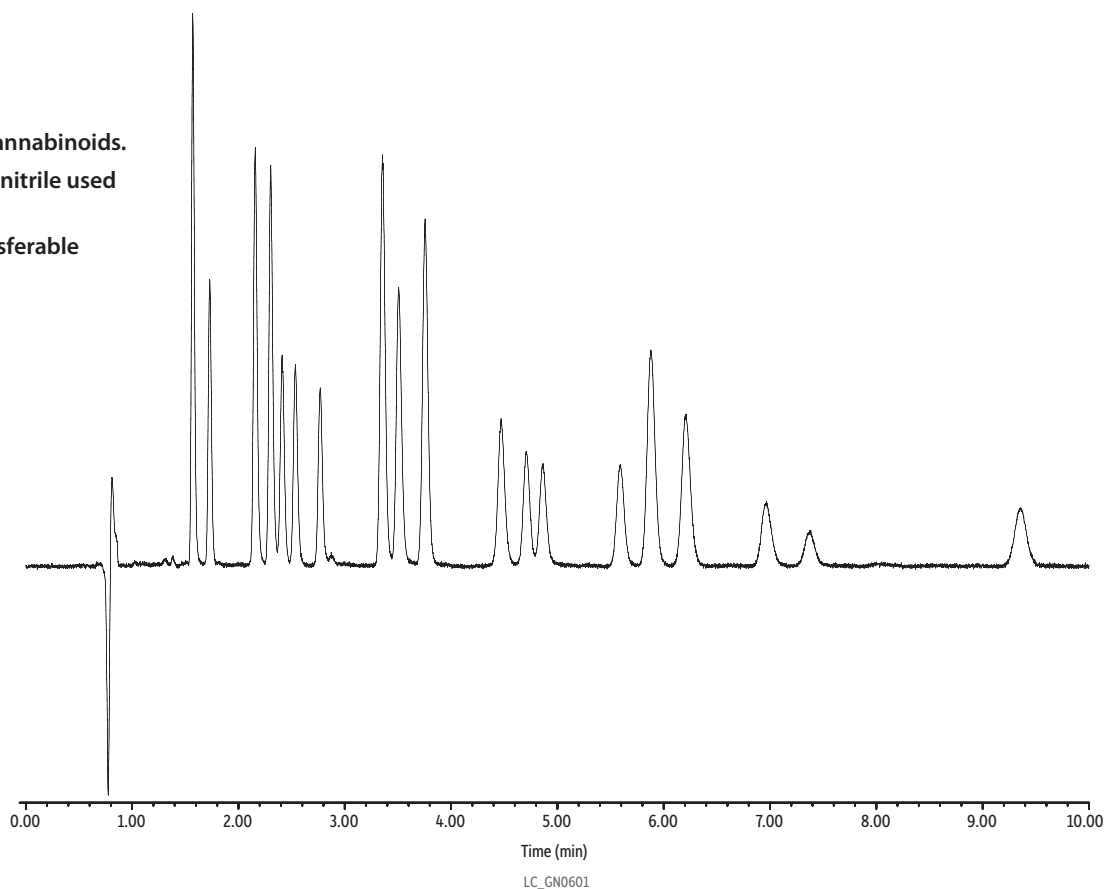


Solvent Savings Analysis of 19 Cannabinoids on Raptor ARC-18 (2.7 µm by LC-UV)

- Resolution of 19 cannabinoids.
- Only 3 mL of acetonitrile used per analysis.
- Simple, easily transferable isocratic method.



Peaks	tr (min)	Peaks	tr (min)
1. Cannabidivarinic acid (CBDVA)	1.570	10. Cannabinol (CBN)	3.756
2. Cannabidivarin (CBDV)	1.728	11. Cannabinolic acid (CBNA)	4.471
3. Cannabidiolic acid (CBDA)	2.159	12. Δ9-Tetrahydrocannabinol (Δ9-THC)	4.706
4. Cannabigerolic acid (CBGA)	2.304	13. Δ8-Tetrahydrocannabinol (Δ8-THC)	4.865
5. Cannabigerol (CBG)	2.411	14. Cannabicyclol (CBL)	5.594
6. Cannabidiol (CBD)	2.537	15. Cannabichromene (CBC)	5.878
7. Tetrahydrocannabivarin (THCV)	2.770	16. Tetrahydrocannabinolic acid A (THCA-A)	6.213
8. Cannabichromevarin (CBCV)	3.355	17. Cannabichromenic acid (CBCA)	6.965
9. Tetrahydrocannabivarinic acid (THCVA)	3.507	18. Cannabicyclolic acid (CBLA)	7.370
		19. Cannabicitran (CBT)	9.359

Column Raptor ARC-18 (cat.# 9314A62)
Dimensions: 150 mm x 2.1 mm ID
Particle Size: 2.7 µm
Pore Size: 90 Å
Guard Column: Raptor ARC-18 EXP guard column cartridge 2.7 µm (cat.# 9314A0252)
Temp.: 30 °C

Sample
 Cannabidivarin (CBDV) (cat.# 34123)
 Cannabidiolic acid (CBDA) (cat.# 34094)
 Cannabigerolic acid (CBGA) (cat.# 34112)
 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)
 Cannabichromene (CBC) (cat.# 34092)
 d9-Tetrahydrocannabinolic acid A (THCA-A) (cat.# 34093)
 Cannabicyclol (CBL) (cat.# 34130)
 Compounds not present in these mixes were obtain separately.

Diluent: Methanol
Conc.: 50 ppm
Inj. Vol.: 2 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	0.4	25	75
10.00	0.4	25	75

Detector UV/Vis @ 228 nm
Instrument UHPLC