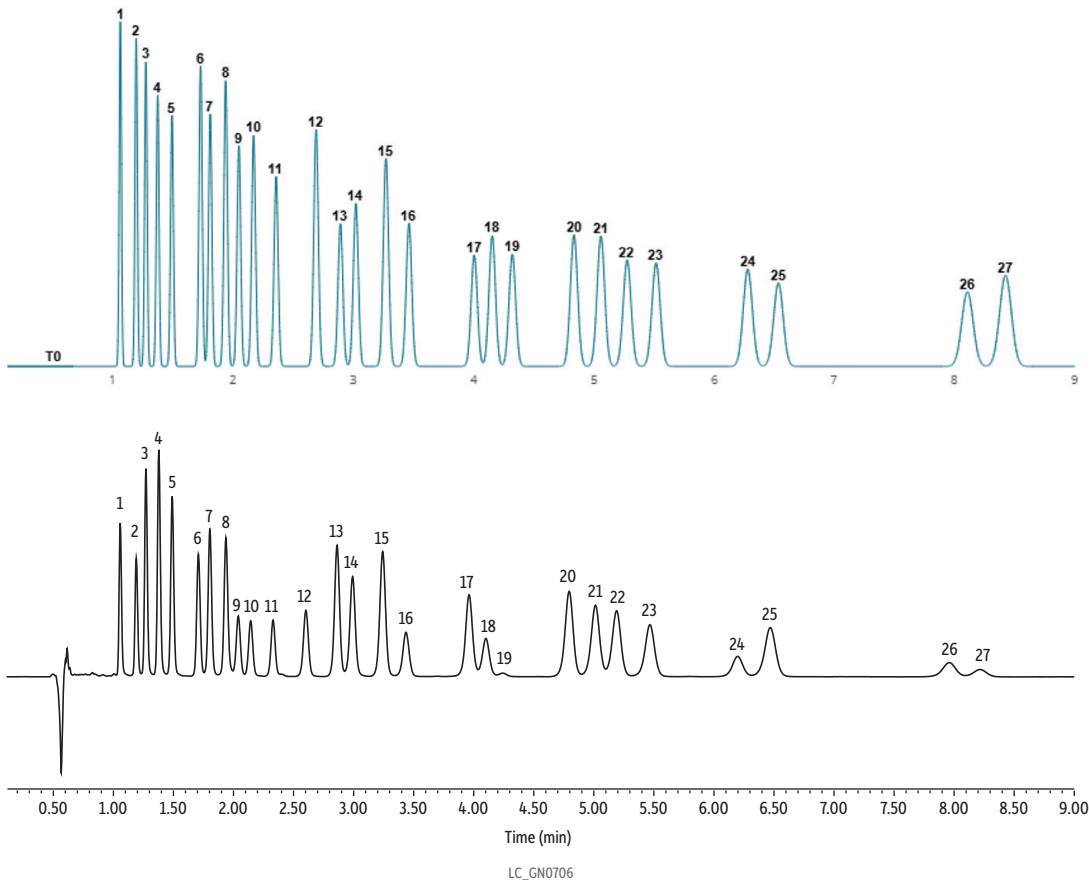


Column Separation Capability: 27 Cannabinoids on Raptor ARC-18 (2.7 µm, 150 mm x 3.0 mm ID)



Peaks	Experimental tr	Modeled tr	Difference (sec)	Analytical Run Time Difference (%)	Column	Raptor ARC-18 (cat.# 9314AG6)
1. Cannabidiol (CBDO)	1.06	1.06	0.36	0.07	Dimensions:	150 mm x 3.0 mm ID
2. Cannabidiol (CBDE)	1.27	1.20	4.56	0.84	Particle Size:	2.7 µm
3. Cannabidiol (CBDVA)	1.38	1.28	6.12	1.13	Pore Size:	90 Å
4. Cannabigerol (CBGVA)	1.49	1.37	6.90	1.28	Temp.:	30 °C
5. Cannabidiol (CBDBA)	1.71	1.49	12.96	2.40	Standard/Sample	Cannabinoids acids 7 standard, 1000 µg/mL, acetonitrile with 1% DIPEA and 0.05% ascorbic acid (cat.# 34144)
6. Cannabidiol (CBDB)	1.80	1.73	4.32	0.80		Cannabinoids neutrals 9 standard, 1000 µg/mL, P&T methanol, 1 mL/ampul (cat.# 34132)
7. Cannabidiol (CBDA)	1.94	1.81	7.62	1.41		All other cannabinoids were obtained separately.
8. Cannabigerol (CBGA)	2.04	1.94	6.06	1.12	Diluent:	Acetonitrile
9. Cannabigerol (CBG)	2.14	2.05	5.64	1.04	Conc.:	50 ppm
10. Cannabidiol (CBD)	2.33	2.17	9.48	1.76	Inj. Vol.:	5 µL
11. Tetrahydrocannabinol (THCV)	2.60	2.36	14.70	2.72	Mobile Phase	
12. Cannabigerol (CBGH)	2.86	2.69	10.26	1.90	A:	Water, 3 mM ammonium formate, 0.1 % formic acid
13. Cannabichromevarin (CBCV)	2.99	2.89	5.88	1.09	B:	Acetonitrile, 0.1 % formic acid
14. Tetrahydrocannabinol (THCVA)	3.24	3.02	13.20	2.44		
15. Cannabinol (CBN)	3.44	3.27	9.84	1.82		
16. Cannabigerol (CBGP)	3.69	3.46	13.74	2.54		
17. Cannabinol (CBNA)	3.96	4.01	2.70	0.50		
18. Δ9-Tetrahydrocannabinol (Δ9-THC)	4.10	4.16	3.24	0.60		
19. Δ8-Tetrahydrocannabinol (Δ8-THC)	4.24	4.32	4.86	0.90		
20. (6aR,9S)-Δ10-Tetrahydrocannabinol ((6aR,9S)-Δ10-THC)	4.80	4.84	2.46	0.46	Detector	UV/Vis @ 228 nm
21. 9(R)-Δ6a,10a Tetrahydrocannabinol (9R-Δ6a,10a - THC)	5.01	5.06	2.70	0.50	Flow Cell Size:	500 nL
22. Cannabichromene (CBC)	5.19	5.28	5.28	0.98	Instrument	Waters ACQUITY UPLC H-Class
23. Tetrahydrocannabinol A (THCA-A)	5.47	5.52	3.06	0.67	Sample Preparation	Working standard was prepared in a 2 mL, 9 mm amber vial (cat. 21142) by diluting 50 µL of each standard into 900 µL acetonitrile and capped with a 9 mm short screw cap (cat. 24497).
24. Cannabichromene (CBCA)	6.20	6.28	5.04	0.93		
25. Cannabicyclic acid (CBLA)	6.47	6.54	4.02	0.74		
26. Δ9-Tetrahydrocannabinol (Δ9-THCP)	7.96	8.11	8.94	1.66		
27. Cannabicitran (CBT)	8.22	8.42	12.48	2.31		