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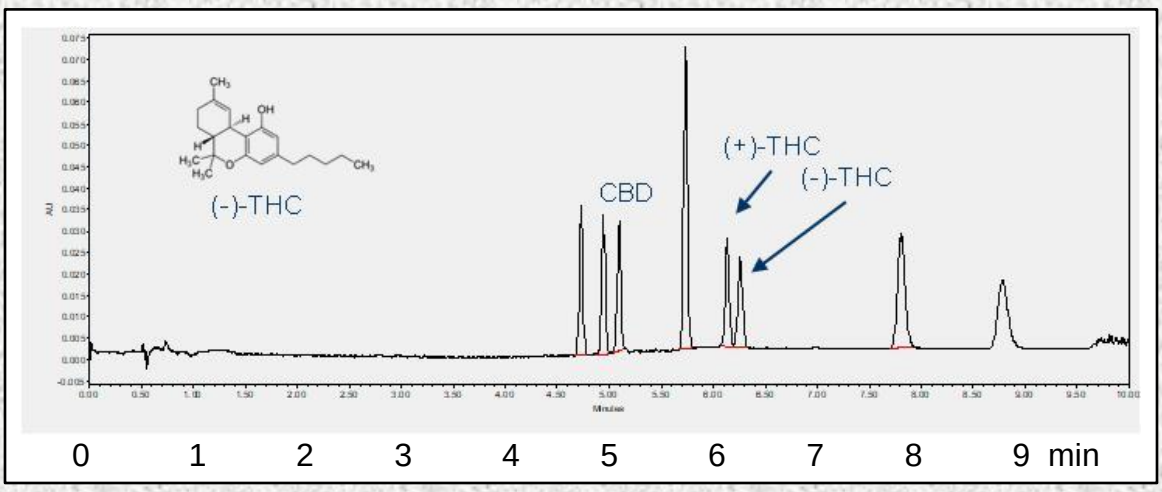
Molecular Purification by Design

Chiral Applications Library

Application Note: SFEP-1A-18002

Separation of the Enantiomers of THC on Epitomize CSP-1A Using Supercritical Fluid Chromatography

Use: Various medical and recreational uses



Cannabidiol, R_1	2 µg/mL methanol	5.09 min
Tetrahydrocannabinol, R_2 (+)-trans-Δ^9-THC	2 µg/mL methanol	6.13 min
Tetrahydrocannabinol, R_3 (-)-trans-Δ^9-THC	2 µg/mL methanol	6.26 min

UHPLC	Waters Acquity UPC^2
Column	Epitomize CSP-1A, 3 µm
Column Size	2.1 mm ID x 150 mm long
Temperature	50 ^oC
Detection	UV at 220 nm
Injection	2.0 µL

Flow Rate	0.80 mL/min
System Backpress.	2639 psi

Gradient Table		
Time	**CO_2**	**Ethanol**
0	98	2
5.00	80	20
9.00	80	20
9.10	98	2
10.00	98	2

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