

THC and Metabolites from Whole Blood on Strata-X-Drug B and Kinetex C18 by LC-MS-MS

Column: Kinetex® 2.6 µm C18 100 Å, LC Column 50 x 2.1 mm, Ea

Dimensions: 50 x 2.1 mm ID

Order No: 00B-4462-AN

Elution Type: Gradient

Eluent A: 1 mM ammonium formate with 0.1% FA

Eluent B: 0.1% FA/methanol:acetonitrile(1:1)

Gradient Profile:	Step No.	Time (min)	Pct A	Pct B
	1	0	50	50
	2	3	5	95
	3	4.5	5	95
	4	4.51	50	50
	5	6	50	50

Flow Rate: 0.4 mL/min

Col. Temp.: ambient

Detection: Circular Dichroism @ 0.0000000000 (ambient)

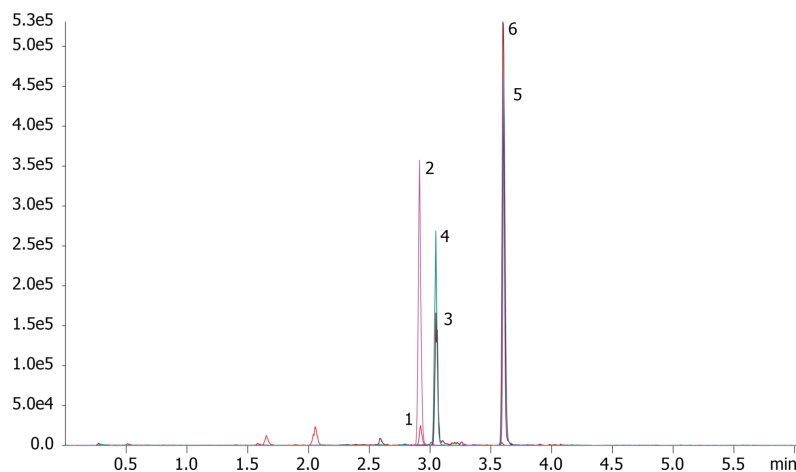
Analyst Note: Mass spec conditions:

Polarity	Analyte	Q1	Q3	DP	CE
(+)	THC-OH (*)	331.0	193.3	55	31
(+)	THC-OH	331.0	201.2	55	33
(+)	THC-OH	331.0	175.3	55	31
(+)	THC-OH-d3	334.0	196.3	55	31
(+)	THC (*)	315.2	193.1	60	31
(+)	THC	315.2	259.1	60	35
(+)	THC-d3	318.2	196.1	60	25
(+)	THC-COOH (*)	345.2	327.0	55	29
(+)	THC-COOH	345.2	299.2	55	49
(+)	THC-COOH-d3	348.0	330.1	55	29

CAD: 7 GS1: 60 GS2: 45 TEM: 600 CUR: 25 IS: 5500

* indicates quant ion

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Products used in this application:



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ANALYTES:

- 1 THC-OH
- 2 THC-OH-d3
- 3 THC-COOH
- 4 THC-COOH-d3
- 5 THC
- 6 THC-d3



Sample Preparation Details

for HPLC Application ID No.: 19947

THC and Metabolites from Whole Blood on Strata-X-Drug B and Kinetex C18 by LC-MS-MS

PRODUCT DESCRIPTION:

Strata™-X-Drug B 33 µm Polymeric Strong Cation, 60 mg / 6 mL, Tubes , 30/Pk

Order No.: 8B-S128-UCH

SOLID PHASE EXTRACTION (SPE) PROCEDURE:

Note: The solvent volumes shown below are for a 60 mg bed mass.

The solvent volumes will need to be adjusted for a smaller or larger bed mass.

Condition:

Load:

Wash:

Dry:

5 mins at 7-15 psi Nitrogen

Elute:

Final Prep and Analysis:

Evaporate eluant to dryness under 50 °C nitrogen. Reconstitute in 500uL of initial mobile phase.

Extraction was automated and performed using a Gilson GX-274 ASPEC system

Inject: 0 µL on HPLC Circular Dichroism @ 0.0000000000 (ambient)

ANALYTES:	Spiked Conc. (ng/mL)	Log P	pKa	% Rec	%RSC (n=0)
1 THC-OH	100			100.3	
2 THC-OH-d3	100			100	
3 THC-COOH	100			103.9	
4 THC-COOH-d3	100			100	
5 THC	100			99.3	
6 THC-d3	100			100	

Note: This method is designed as a convenient starting point for further investigation and can be tailored to meet your extraction goals.
Call your local Phenomenex Representative for assistance in method development and optimization techniques.

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For more information contact your Phenomenex Representative at support@phenomenex.com



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