

THCs extracted from Human Blood using Strata XL-A on GC/MS (TIC)

Column: Zebtron™ ZB-5MSi, GC Cap. Column 10 m x 0.18 mm x 0.18 μm, Ea

Phase: 5% Phenyl 95% Dimethylpolysiloxane

Dimensions: 10 meters x 0.18 mm x 0.18 μm

Order No: 7CD-G018-08

Oven Profile: 200 °C to 300 °C @ 20 °C/min

Carrier Gas: Constant Flow Helium, 0.7 mL/min

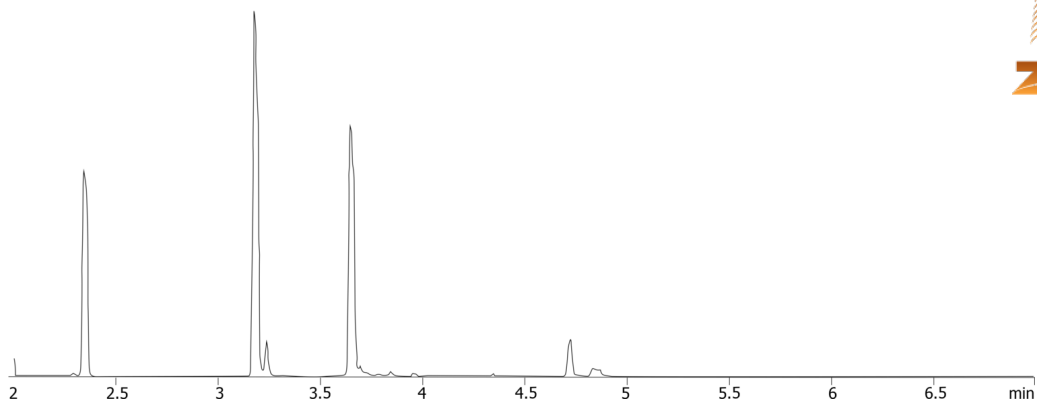
Injection: Split 10:1 1 μL @ 280°C

Detection: Mass Spectrometer (MS) (320°C)

23877



Products used in this application:



ANALYTES:

- 1 Delta 9 THC
Retention Time: 2.35 min
- 2 Delta 9 THC-D3
- 3 Hydroxy THC
Retention Time: 3.19 min
- 4 Hydroxy THC-D3
- 5 Carboxy THC
Retention Time: 3.65 min
- 6 Carboxy THC-D3



Sample Preparation Details

for GC Application ID No.: 23877

THCs extracted from Human Blood using Strata XL-A on GC/MS (TIC)

PRODUCT DESCRIPTION:

Strata™-XL-A 100 µm Polymeric Strong Anion, 100 mg / 6 mL, Tubes , 30/Pk

Order No.: 8B-S053-ECH

SOLID PHASE EXTRACTION (SPE) PROCEDURE:

Note: The solvent volumes shown below are for a 100 mg bed mass.

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

Condition:

Load:

1mL of Whole Blood spiked with standards (50uL of 100ug/mL) and IS (same concentration). 5ppm total concentration. Vortexed and 2mL of Acetonitrile is added dropwise. Then centerfuged at 4700RPM for 5 minuts @ 2C. Transferred supernatant to a new

Wash:

Dry:

5 minutes 10 inches Hg

Elute:

Final Prep and Analysis:

Add 50uL Ethyl Acete and 50uL BSTFA (with 1% TMCS), Mix/vortex, react 20 minutes @ 70C, remove from heat source and transfer to autosampler vial.

Inject: 1 µL on HPLC Mass Spectrometer (MS) @ amu (320°C)

ANALYTES:

	Spiked Conc. (ng/mL)	Log P	pKa	% Rec	%RSC (n=0)
1 Delta 9 THC	0				
2 Delta 9 THC-D3	0				
3 Hydroxy THC	0				
4 Hydroxy THC-D3	0				
5 Carboxy THC	0				
6 Carboxy THC-D3	0				

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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