GC Application ID No.: **23877**



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

Zebron™ 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 μ m

Order No: 7CD-G018-08

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

Carrier Gas: Constant Flow Helium, 0.7 mL/min

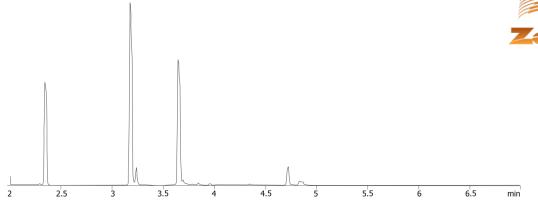
Injection: Split 10:1 1 µL @ 280°C

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



Products used in this application:





ANALYTES:

Delta 9 THC

Retention Time: 2.35 min

Delta 9 THC-D3 2

Hydroxy THC

Retention Time: 3.19 min

Hydroxy THC-D3

Carboxy THC

Retention Time: 3.65 min

Carboxy THC-D3

Sample Preparation Details

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) PRODCEDURE:

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. Transfered 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)

ANAI	LYTES:	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				

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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