

THCs extracted from Human Urine using Strata Screen C 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

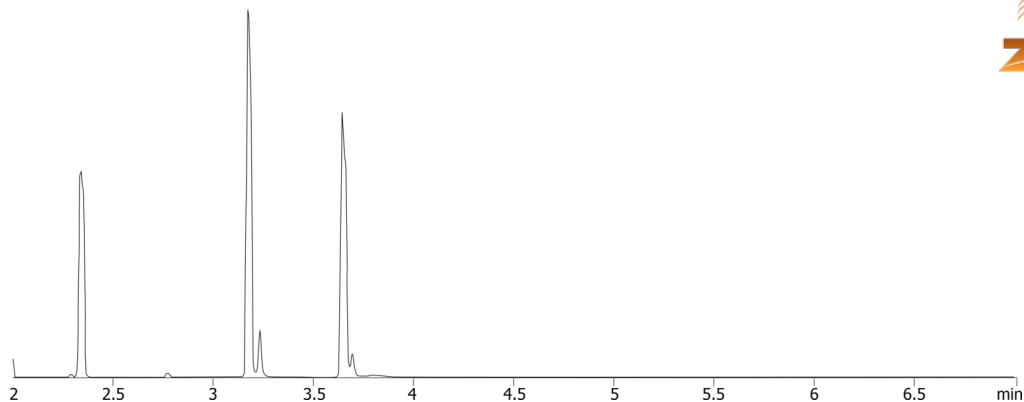
Injection: Split 10:1 1 μL @ 280°C

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

23876



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.: 23876

THCs extracted from Human Urine using Strata Screen C on GC/MS (TIC)

PRODUCT DESCRIPTION:

Strata[®] Screen-C (55 µm, 70 Å), 200 mg / 3 mL, Tubes , 50/Pk

Order No.: 8B-S016-FBJ

SOLID PHASE EXTRACTION (SPE) PROCEDURE:

Note: The solvent volumes shown below are for a 200 mg bed mass.

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

Condition:

Load:

Wash:

Dry:

5 minutes 10 inches Hg

Elute:

Final Prep and Analysis:

Add 50µL 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 info@phenomenex.com



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