

THC and Metabolite in Plasma by LC/MS/MS on Gemini C18 5µm 50 x 3.0

Column: Gemini® 3 µm C18 110 Å, LC Column 50 x 3 mm, Ea

Dimensions: 50 x 3 mm ID

Order No: 00B-4439-Y0

Elution Type: Gradient

Eluent A: 10mM NH₄HCO₃ (pH 10)

Eluent B: Acetonitrile

Gradient Profile:	Step No.	Time (min)	Pct A	Pct B
	1	0.1	85	15
	2	3	5	95
	3	3.5	5	95
	4	3.6	85	15
	5	4.1	85	15

Flow Rate: 0.8 mL/min

Col. Temp.: ambient

Detection: Mass Spectrometer (MS) @ amu (450 °C)

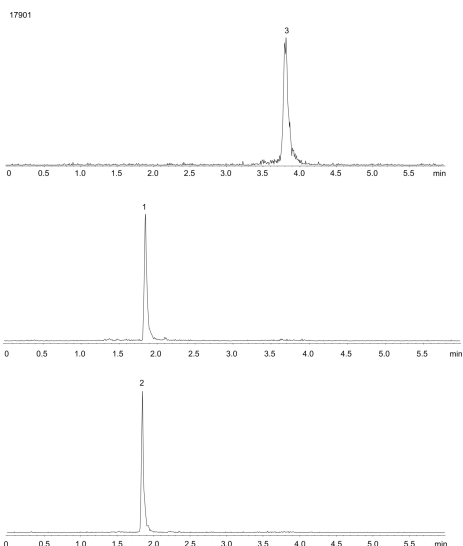
Analyst Note: SecurityGuard™ Guard Cartridge System extends column lifetime.

- SecurityGuard Cartridges, Gemini C18 4 x 2.0mm, 10/Pk Part No.: AJ0-7596

- Holder Part No.: KJ0-4282



Products used in this application:



ANALYTES:

- 1 11-nor-9-Carboxy-THC (THC-COOH)
- 2 delta-9-tetrahydrocannabinol-d3 (THC)
- 3 delta-9-tetrahydrocannabinol (THC)



Sample Preparation Details

for HPLC Application ID No.: 17901

THC and Metabolite in Plasma by LC/MS/MS on Gemini C18 5µm 50 x 3.0

PRODUCT DESCRIPTION:

Strata™-X-C 33 µm Polymeric Strong Cation, 30 mg / 1 mL, Tubes , 100/Pk

Order No.: 8B-S029-TAK

SOLID PHASE EXTRACTION (SPE) PROCEDURE:

Note: The solvent volumes shown below are for a 30 mg bed mass.

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

Condition:

Load:

100ul x 100ng/ml(in MeOH, evaporated) std + 1ml human plasma + 1ml Water (conc. spiked in plasma: 10ng/ml)

Wash:

Dry:

Elute:

Final Prep and Analysis:

Inject: 20 µL on HPLC Mass Spectrometer (MS) @ amu (450°C)

ANALYTES:	Spiked Conc. (ng/mL)	Log P	pKa	% Rec	%RSC (n=0)
1 11-nor-9-Carboxy-THC (THC-COOH)					
2 delta-9-tetrahydrocannabinol-d3 (THC)					
3 delta-9-tetrahydrocannabinol (THC)					

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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