HPLC Application ID No.: 22786



Extraction of COOH-THC from Urine Using Novum SLE & Kinetex 2.6u C8

Kinetex® 2.6 μ m C8 100 Å, LC Column 50 x 2.1 mm, Ea

50 x 2.1 mm ID **Dimensions:** Order No: 00B-4497-AN Elution Type: Gradient

Eluent A: 0.1% formic acid

Methanol/acetonitrile(50:50) Eluent B:

Gradient	Step No.	Time (min)	Pct A	Pct B
Profile:	1	0	50	50
	2	2.5	5	95
	3	3.5	5	95
	4	5	50	50

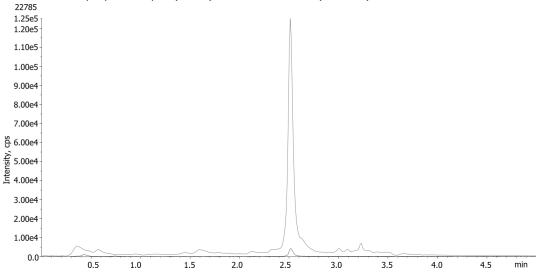
Flow Rate: 0.5 mL/min 25 °C Col. Temp.:

Electrospray Mass Spec (ESMS) @ 0.000000000 (ambient) **Detection:**



Products used in this application:





ANALYTES:

11-nor-9-carboxy-delta9-THC

Retention Time: 2.51 min

11-nor-9-carboxy-delta9-THC-d3 (IS)

Retention Time: 2.51 min

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Sample Preparation Details for HPLC Application ID No.: 22786



Extraction of COOH-THC from Urine Using Novum SLE & Kinetex 2.6u C8

PRODUCT DESCRIPTION:

Novum SLE MAX 96-Well Plate, 1/Pk

Order No.: 8E-S138-5GA

SOLID PHASE	EXTRACTION ((SPE) PRODCEDURE:
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Note: The solvent volumes shown below are for a 400 mg bed mass

The solvent volumes will need to be adjusted for a smaller or larger bed mass.
Condition:
oad:
Enzymatic Hydrolysis: To 300 uL urine add 75 uL of 300 mM ammonium acetate (pH 4.0) and 25 uL of -Glucoronidase solution (100,000 units/mL (www.campbellscience.com, DR2100).
Mix and vortex for 30 secs.
Incubate at 37- 40°C for 60 minutes. (Gentle shaking during this step is recommended). After incubation, bring samples to room temperature prior to extraction.
Vash:
Dry:
lute:
inal Prep and Analysis:
Sample Pretreatment Step Enzymatic Hydrolysis: To 300 uL urine add 75 uL of 300 mM ammonium acetate (pH 4.0) and 25

ANALYTES:	Spiked Conc.	Log P	pKa	% Rec	%RSC
	(ng/mL)				(n=0)
1 11-nor-9-carboxy-delta9-THC	20			83	

Inject: 20 µL on HPLC Electrospray Mass Spec (ESMS) @ 0.000000000 (ambient)

1 11-nor-9-carboxy-delta9-THC

2 11-nor-9-carboxy-delta9-THC-d3 (ESI)

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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