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

Kinetex[®]

Products used in this application:



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

Detection: Tandem Mass Spec (MS-MS) @ (ambient)

Detector Info: <a target="_blank"

trometers?utm_campaign=2010%20application%20cearch&utm_source=phenomenex&utm_medium=referral">SCIEX< 22785 1.25e5 1.20e5 1.10e5 1.00e5 9.00e4 8.00e4 7.00e4 රි 6.00e4 <u>र्ह</u>ू 5.00e4 <u>북</u> 4.00e4 3.00e4 2.00e4 1.00e4 0.0 0.5 1.5 2.0 2.5 3.0 1.0 3.5 4.0 4.5 min

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 EX	XTRACTION (SPI	E) 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:							
Load:							
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.							
Wash:							
Dry:							
Elute:							
Final 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							
Inject: 20 μL on HPLC Tandem Mass Spec (MS-MS) @ (ambient)							

ANALYTES:	Spiked Conc.	Log P	рКа	% Rec	%RSC
	(ng/mL)				(n=0)
1 11-nor-9-carboxy-delta9-THC	20			83	
2 11-nor-9-carboxy-delta9-THC-d3 (ESD)					

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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