HPLC Application

Cotinine using SPE with Gemini NX-C18, LC-MSMS (Fig.3b)

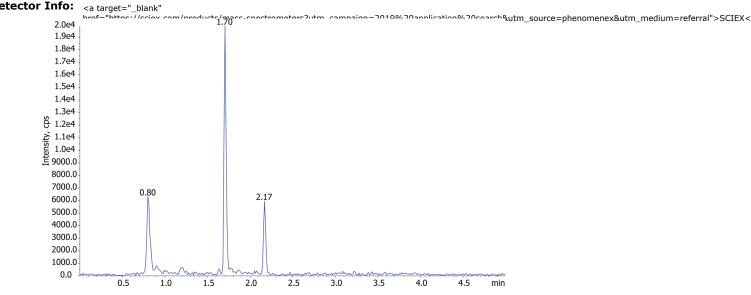
			_	-,				
Column:	Gemini $\ensuremath{\mathbb{R}}$ 3 $\ensuremath{\mu}m$ NX-C18 110 Å, LC Column 50 x 2 mm, Ea							
Dimensions:	50 x 2 mm ID							
Order No:	00B-4453-B0							
Elution Type:	Gradient							
Eluent A:	20mM Ammonium Bicarbonate							
Eluent B:	100% Acetonitrile							
Gradient	Step No.	Time (min)	Pct A	Pct B				
Profile:	1	0	90	10				
	2	3	25	75				
	3	3.1	90	10				
	4	5	90	10				
Flow Rate:	500 µL/min							
Col. Temp.:	25 °C							
Detection:	Tandem Mass Spec (MS-MS) @ (ambient)							
Detector Info:	<a <br="" target="_blank">braf="bttps://coiex.com/products/mass-spectrometers?utm_campaign=2010 1.70							
2.0e4	brof-"https://s/	siev com/products/m 1.7	0 0	outm campaign=2010				
1.9e4 1.8e4	-							
1.004	1							



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Products used in this application:





ANALYTES:

- 1 Nornicotine Retention Time: 1.09 min
- 2 3-OH-Cotinine Retention Time: 1.16 min
- 3 Anabasine

Retention Time: 1.71 min

- 4 Cotinine Retention Time: 1.73 min
- 5 Nicotine Retention Time: 2.31 min

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for HPLC Application ID No.: 22037

Cotinine using SPE with Gemini NX-C18, LC-MSMS (Fig.3b)

PRODUCT DESCRIPTION:

Strata[™]-X-C 33 µm Polymeric Strong Cation, 60 mg / 3 mL, Tubes , 50/Pk

Order No.: 8B-S029-UBJ

SOLID PHASE EXTRACTION (SPE) PRODCEDURE:

Note: The solvent volumes shown below are for a 60 mg bed mass.

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

Condition:

Load:

Wash:

Dry:

> 10" Hg for 5 min to remove residual water

Elute:

Final Prep and Analysis:

Reconstitution Solvent: 500uL Acetonitrile/20mM Ammonium bicarbonate (10:90) Inject: 10 µL on HPLC Tandem Mass Spec (MS-MS) @ (ambient)

ANALYTES:	Spiked Conc. (ng/mL)	Log P	рКа	% Rec	%RSC (n=0)
1 Nornicotine	0				
2 3-OH-Cotinine	0				
3 Anabasine	0				
4 Cotinine	0				
5 Nicotine	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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