HPLC Application

ID No.: 22041



Nicotine using SPE with Gemini NX-C18, LC-MSMS_Standard Curve (Fig.4a)

Gemini® 3 µm NX-C18 110 Å, LC Column 50 x 2 mm, Ea

50 x 2 mm ID **Dimensions:** 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



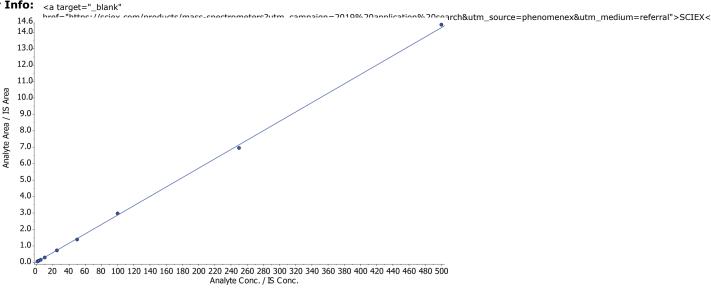
Products used in this application:



Flow Rate: 500 μL/min 25 °C Col. Temp.:

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

Detector Info:



ANALYTES:

Nornicotine

Retention Time: 1.09 min 3-OH-Cotinine

Retention Time: 1.16 min

Anabasine

Retention Time: 1.71 min

Cotinine

Retention Time: 1.73 min

Nicotine

Retention Time: 2.31 min

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Sample Preparation Details

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Nicotine using SPE with Gemini NX-C18, LC-MSMS_Standard Curve (Fig.4a)

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)
Indicate 10 cd and UDI C Tanadam Mana Conne (MC MC) @ (amabiant)

Inject: 10 µL on HPLC Tandem Mass Spec (MS-MS) @ (ambient)

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

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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