HPLC Application

ID No.: 22038



Nornicotine using SPE with Gemini NX-C18, LC-MSMS (Fig.3c) Gemini® 3 µm NX-C18 110 Å, LC Column 50 x 2 mm, Ea Column: Gemini 50 x 2 mm ID **Dimensions: Order No:** 00B-4453-B0 Elution Type: Gradient Eluent A: 20mM Ammonium Bicarbonate Eluent B: 100% Acetonitrile Time (min) Pct A Pct B Gradient Step No. **Profile:** 0 90 10 1 75 2 3 25 Products used in this application: 3 3.1 90 10 5 90 10 4 'Gemini[,] Flow Rate: 500 µL/min 25 °C Col. Temp.: **Detection:** Tandem Mass Spec (MS-MS) @ (ambient) **Detector Info:** SCIEX< 3.4e4 3.2e4 3.0e4 2.8e4 2.6e4 2.4e4 2.2e4 cbs 2.0e4 intensity, 1.8e4 1.6e4 1.4e4 1.2e4 1.0e4 0.86 8000.0 6000.0 4000.0 0.66 1.23 1.62 2000.0 0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 min

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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Nornicotine using SPE with Gemini NX-C18, LC-MSMS (Fig.3c)

PRODUCT DESCRIPTION:

Strata^m-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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