

HPLC Application

ID No.: 16345

Nicotine and Metabolites on Gemini 5µm C18

Column: Gemini® 5 µm C18 110 Å, LC Column 100 x 2 mm, Ea

Dimensions: 100 x 2 mm ID

Order No: 00D-4435-B0

Elution Type: Gradient

Eluent A: Water with 0.1% v/v Formic Acid

Eluent B: Acetonitrile with 0.1% v/v Formic Acid

Gradient Profile:	Step No.	Time (min)	Pct A	Pct B
	1	0	97	3
	2	1	97	3
	3	3	70	30
	4	3.01	97	3
	5	5.5	97	3

Flow Rate: 0.4 mL/min

Col. Temp.: ambient

Detection: Mass Spectrometer (MS) @ amu (ambient)

Detector Info: SCIEX
MRM transitions monitored:

Nicotine: m/z 163.3/105.9 and 163.3/80.1

Nornicotine: m/z 149.1/80.1

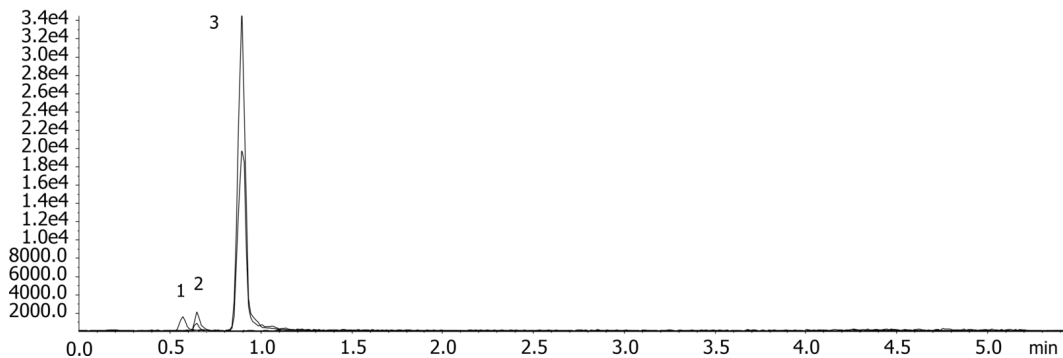
Cotinine: m/z 177.3/98.0 and 177.3/80.1

Analyst Note: The pH of the aqueous acid is 2.7. 0.5ng on-column injection of each analyte.

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Products used in this application:



ANALYTES:

- 1 Nornicotine
Retention Time: 0.57 min
- 2 Nicotine
Retention Time: 0.65 min
- 3 Cotinine
Retention Time: 0.89 min

