

# 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:** <a target="\_blank" href="https://sciex.com/products/mass-spectrometers?utm\_campaign=2019%20application%20search&utm\_source=phenomenex&utm\_medium=referral">SCIEX</a>  
MRM transitions monitored:

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

Nornicotine: m/z 149.1/80.1

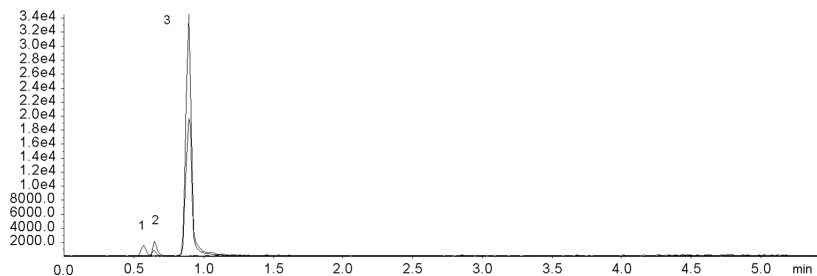
Cotinine: m/z 177.3/98.0 and 177.3/80.1

**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 (MRM: 149.1/80.1)

Retention Time: 0.57 min

2 Nicotine (MRM: 163.3/105.9)

Retention Time: 0.65 min

3 Cotinine (MRM: 177.3/80.1)

Retention Time: 0.89 min

