HPLC Application

ID No.: **20909**

Nicotinic acid / Nicotinamide (1000 ng/mL) in Human Plasma by Impact on Gemini 3µm C18 100x4.6mm

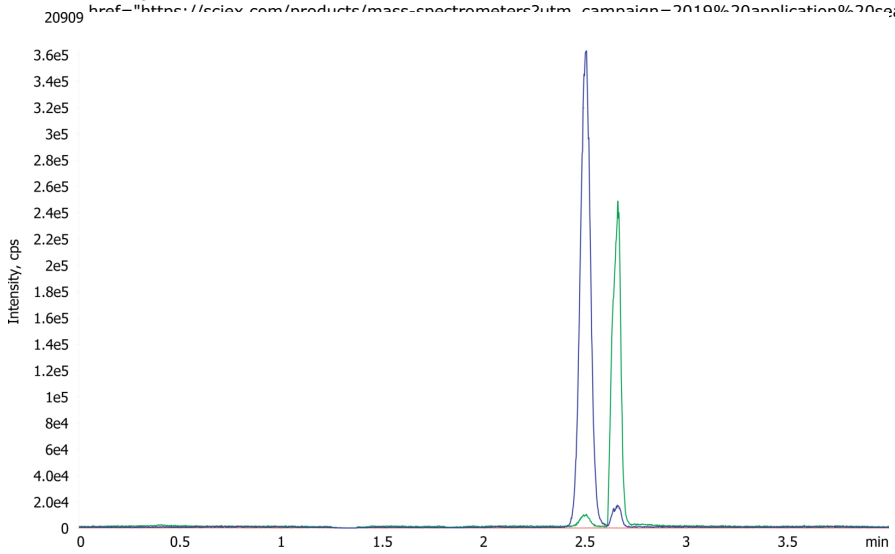
Column: Gemini® 3 µm C18 110 Å, LC Column 100 x 4.6 mm, Ea
Dimensions: 100 x 4.6 mm ID
Order No: 00D-4439-E0
Elution Type: Gradient
Eluent A: 0.1% formic acid
Eluent B: Methanol 100%

Gradient Profile:

Step No.	Time (min)	Pct A	Pct B
1	0	90	10
2	2.5	10	90
3	2.6	90	10
4	4	90	10

Flow Rate: 0.6 mL/min
Col. Temp.: ambient
Detection: Electrospray Mass Spec (ESMS) @ (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<,

Products used in this application:



ANALYTES:

1 Nicotinamide
Retention Time: 2.5 min

2 Nicotinic acid
Retention Time: 2.66 min

Sample Preparation Details

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PRODUCT DESCRIPTION:

Impact™ Protein Precipitation, 2mL Square Well Filter Plate, 2/Pk

Order No.: CE0-7565

SOLID PHASE EXTRACTION (SPE) PRODCEDURE:

Note: The solvent volumes shown below are for a Proprietary bed mass.
The solvent volumes will need to be adjusted for a smaller or larger bed mass.

Condition:

Load:

Wash:

Dry:

Elute:

Final Prep and Analysis:

Inject: 2 µL on HPLC Electrospray Mass Spec (ESMS) @ (ambient)

ANALYTES:	Spiked Conc. (ng/mL)	Log P	pKa	% Rec	%RSC (n=0)
1 Nicotinamide	1000			101	
2 Nicotinic acid	1000			96.1	

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.*