HPLC Application

ID No.: **20650**

Histamine by LCMS using Luna 3um HILIC 100x2.1mm

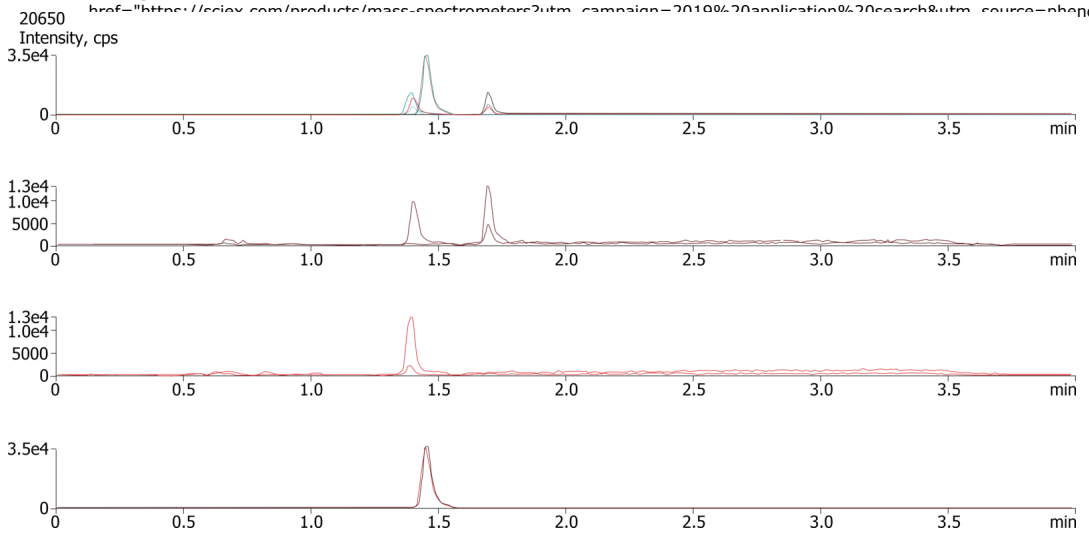
Products used in this application:

Column: Luna® 3 µm HILIC 200 Å, LC Column 100 x 2 mm, Ea
Dimensions: 100 x 2 mm ID
Order No: 00D-4449-B0
Elution Type: Gradient
Eluent A: 50:45:5 ACN:DI H2O: 100 mM Amm. Form, pH 3.22
Eluent B: 95:5 ACN:100 mM Amm. Formate, pH 3.22

Gradient Profile:

Step No.	Time (min)	Pct A	Pct B
1	0	17	83
2	1.5	100	0
3	2.5	100	0
4	2.6	17	83
5	4.5	17	83

Flow Rate: 0.6 mL/min
Col. Temp.: ambient
Detection: Tandem Mass Spec (MS-MS) @ (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<,



ANALYTES:

1 1-Methyl histamine
Retention Time: 1.39 min

2 N-Methyl histamine
Retention Time: 1.45 min

3 Histamine
Retention Time: 1.69 min

Sample Preparation Details

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PRODUCT DESCRIPTION:

Strata™-X-CW 33 µm Polymeric Weak Cation, 30 mg / 3 mL, Tubes , 50/Pk

Order No.: 8B-S035-TBJ

SOLID PHASE EXTRACTION (SPE) PRODCEDURE:

Note: The solvent volumes shown below are for a 30 mg bed mass.
The solvent volumes will need to be adjusted for a smaller or larger bed mass.

Condition:

Load:

Wash:

Dry:

2 min at high vacuum level, ~20-30 in Hg

Elute:

Final Prep and Analysis:

Inject: 2 µL on HPLC Tandem Mass Spec (MS-MS) @ (ambient)

ANALYTES:		Spiked Conc. (ng/mL)	Log P	pKa	% Rec	%RSC (n=0)
1	1-Methyl histamine	0				
2	N-Methyl histamine	0				
3	Histamine	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.*