

HPLC Application

ID No.: 20650

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

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

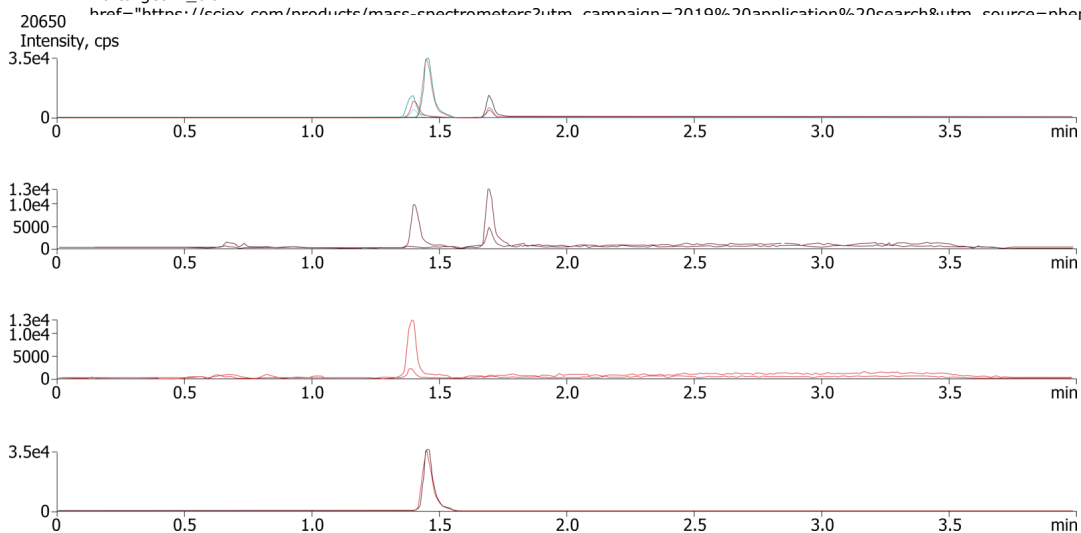
Gradient Profile:	Step No.	Time (min)	Pct A	Pct B
	1	0	17	83
	2	1.5	100	0
	3	2.5	100	0
	4	2.6	17	83
	5	4.5	17	83

Flow Rate: 0.6 mL/min

Col. Temp.: ambient

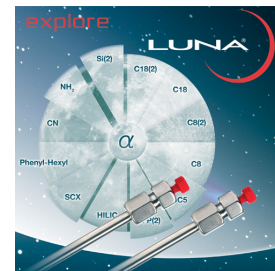
Detection: Tandem Mass Spec (MS-MS) @ (ambient)

Detector Info: SCIEX<



ANALYTES:

- 1-Methyl histamine
Retention Time: 1.39 min
- N-Methyl histamine
Retention Time: 1.45 min
- Histamine
Retention Time: 1.69 min



Products used in this application:



Sample Preparation Details

for HPLC Application ID No.: 20650

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

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) PROCEDURE:

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.

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For more information contact your Phenomenex Representative at support@phenomenex.com



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