

HPLC Application

ID No.: 20771

Heterocyclic Amines by LCMS using Kinetex 5u C18 50x2.1mm

Column: Kinetex[®] 5 μ m C18 100 Å, LC Column 50 x 2.1 mm, Ea

Dimensions: 50 x 2.1 mm ID

Order No: 00B-4601-AN

Elution Type: Gradient

Eluent A: 30 mM Ammonium formate

Eluent B: Acetonitrile

Gradient Profile:	Step No.	Time (min)	Pct A	Pct B
	1	0	95	5
	2	5	40	60
	3	5.1	0	100
	4	6	0	100
	5	7	95	5

Flow Rate: 500 μ L/min

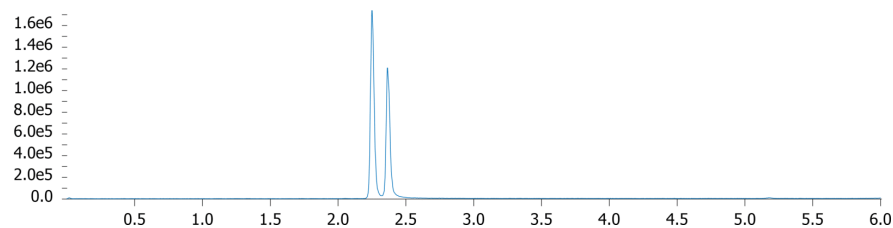
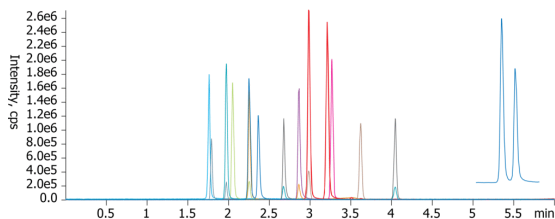
Col. Temp.: ambient

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

Detector Info:

20771

https://sciex.com/products/mass-spectrometers?utm_campaign=2019%20application%20research&utm_source=phenomenex&utm_medium=referral>SCIE<



Products used in this application:



Heterocyclic Amines by LCMS using Kinetex 5u C18 50x2.1mm

ANALYTES:

- 1** DMIP
- 2** IQx
- 3** IQ
- 4** 8-MeIQ
- 5** 4,8-DiMe-IQx
- 6** 7,8-DiMe-IQx
- 7** Trp-P-2
- 8** Harman
- 9** Norharman
- 10** PhIP
- 11** AaC
- 12** MeAaC
- 13** MeIQ



Sample Preparation Details

for HPLC Application ID No.: 20771

Heterocyclic Amines by LCMS using Kinetex 5u C18 50x2.1mm

PRODUCT DESCRIPTION:

Strata™-X-C 33 µm Polymeric Strong Cation, 60 mg / 3 mL, Tubes , 50/Pk

Order No.: 8B-S029-UBJ

SOLID PHASE EXTRACTION (SPE) PROCEDURE:

Note: The solvent volumes shown below are for a 60 mg 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 Tandem Mass Spec (MS-MS) @ (ambient)

ANALYTES:	Spiked Conc. (ng/mL)	Log P	pKa	% Rec	%RSC (n=0)
1 DMIP	0				
2 IQx	0				
3 IQ	0				
4 8-MeIQ	0				
5 4,8-DiMe-IQx	0				
6 7,8-DiMe-IQx	0				
7 Trp-P-2	0				
8 Harman	0				
9 Norharman	0				
10 PhIP	0				
11 AaC	0				
12 MeAaC	0				
13 MeIQ	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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