HPLC Application

ID No.: **20771**

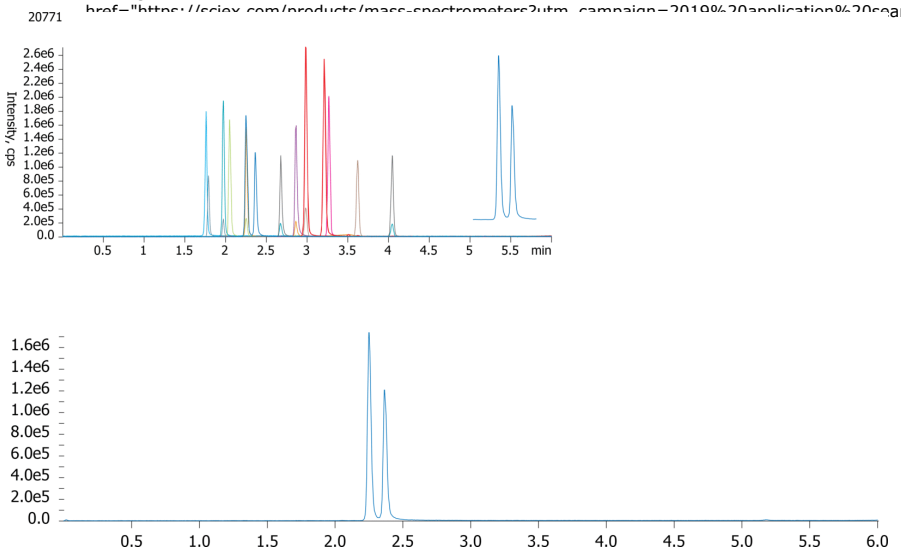
Heterocyclic Amines by LCMS using Kinetex 5u C18 50x2.1mm

Column: Kinetex® 5µm 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 µL/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<,



Products used in this application:

KINETEX®

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

Phenomenex products are available worldwide.

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

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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) PRODCEDURE:

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.*