# **HPLC Application** ID No.: **20685**



## Biogenic Amines by LCMS using Kinetex 1.7u C18 50x3.0mm

Kinetex® 1.7 µm C18 100 Å, LC Column 50 x 3 mm, Ea

50 x 3 mm ID **Dimensions:** Order No: 00B-4475-Y0 Elution Type: Gradient

Eluent A: 30mM Ammonium formate

Eluent B: Acetonitrile

Gradient	Step No.	Time (min)	Pct A	Pct B
Profile:	1	0	80	20
	2	3	40	60
	3	3.1	0	100
	4	4	0	100
	5	4.1	80	20
	6	5	80	20

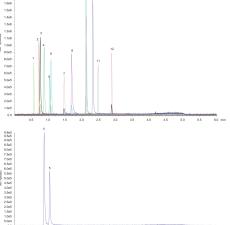
Kinetex<sup>®</sup>

Products used in this application:



Flow Rate: 600 µL/min Col. Temp.: ambient

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



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## Biogenic Amines by LCMS using Kinetex 1.7u C18 50x3.0mm **ANALYTES:**

- 1 IQx
- 2 8-MeIQx
- 3 ΙQ
- 4 7,8-DiMeIQx
- 4,8-DiMeI-Qx 5
- 6 MeIQ
- 7 Trp-P-2
- Harman
- 9 PhIP
- 10 Norharman
- **11** AaC
- 12 MeAaC

## **Sample Preparation Details**

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## Biogenic Amines by LCMS using Kinetex 1.7u C18 50x3.0mm

#### **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		
( Analtian:		

#### Load:

Salmon samples were pre-treated prior to loading onto the conditioned Strata-X-C sorbent:

- 1. weigh out 4.0 g of salmon into a 50 mL plastic centrifuge tube
- 2. pulverize meat using a spatula against the sides of the centrifuge tube
- 3. add 20 mL Acetonitrile and 12 mL of Hexane, vortex for 1 minute
- 4. centrifuge for 5 minutes at 14,500 rpm
- 5. transfer the bottom Acetonitrile layer to a new tube
- 6. repeat extraction with a new 20 mL aliquot of Acetonitrile, vortex for 1 minute then centrifuge
- 7. collect the lower layer and combine fractions

The combined fractions are now ready to loaded onto the conditioned Strata-X-C sorbent.

Wash:	
Dry:	
Elute:	
Final Prep and Analysis:	
Inject: 2 ul. on HDLC Tandem Mass Spec (MS-MS)	(ambient)

Childad Cana

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

ANAI	LYTES:	Spiked Conc. (ng/mL)	LOG P	рка	% Kec	%RSC (n=0)
1	IQx	0				
2	8-MeIQx	0				
3	IQ	0				
4	7,8-DiMeIQx	0				
5	4,8-DiMeI-Qx	0				
6	MeIQ	0				
7	Trp-P-2	0				
8	Harman	0				
9	PhIP	0				
10	<b>N</b> orharman	0				
11	<b>L</b> AaC	0				
12	2 MeAaC	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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