

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

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

**Dimensions:** 50 x 3 mm ID

**Order No:** 00B-4475-Y0

**Elution Type:** Gradient

**Eluent A:** 30mM Ammonium formate

**Eluent B:** Acetonitrile

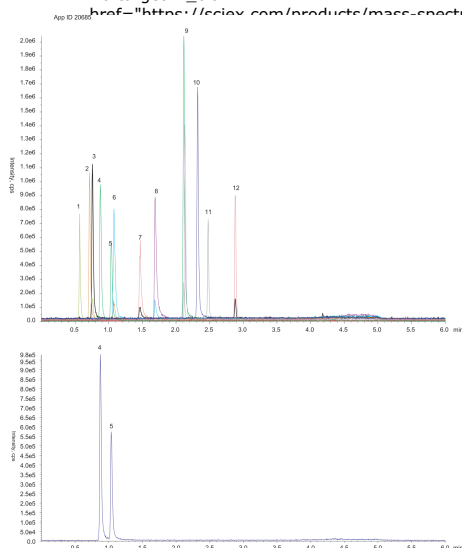
Gradient Profile:	Step No.	Time (min)	Pct A	Pct B
	1	0	80	20
	2	3	40	60
	3	3.1	0	100
	4	4	0	100
	5	4.1	80	20
	6	5	80	20

**Flow Rate:** 600 µL/min

**Col. Temp.:** ambient

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

**Detector Info:** <a target="\_blank"



Products used in this application:



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

### ANALYTES:

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



# Sample Preparation Details

for HPLC Application ID No.: 20685

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

### PRODUCT DESCRIPTION:

Strata<sup>TM</sup>-X-C 33  $\mu$ m 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:

---

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  $\mu$ L on HPLC Tandem Mass Spec (MS-MS) @ (ambient)

ANALYTES:	Spiked Conc. (ng/mL)	Log P	pKa	% Rec	%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 Norharman	0				
11 AaC	0				
12 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.

©2025 Phenomenex Inc. All rights reserved.

For more information contact your Phenomenex Representative at [info@phenomenex.com](mailto:info@phenomenex.com)



Phenomenex products are available worldwide.

[www.phenomenex.com.cn](http://www.phenomenex.com.cn)

[info@phenomenex.com](mailto:info@phenomenex.com)