

Alfatoxins in Food by LC/MS/MS

Column: Luna® 3 µm PFP(2) 100 Å, LC Column 50 x 2 mm, Ea

Dimensions: 50 x 2 mm ID

Order No: 00B-4447-B0

Elution Type: Isocratic

Eluent A: 5mM Ammonium Acetate + 0.1% Formic Acid

Eluent B: Methanol

Gradient Profile:	Step No.	Time (min)	Pct A	Pct B
1	0	40	60	

Flow Rate: 0.4 mL/min

Col. Temp.: 28 °C

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

Detector Info: 3200 QTRAP

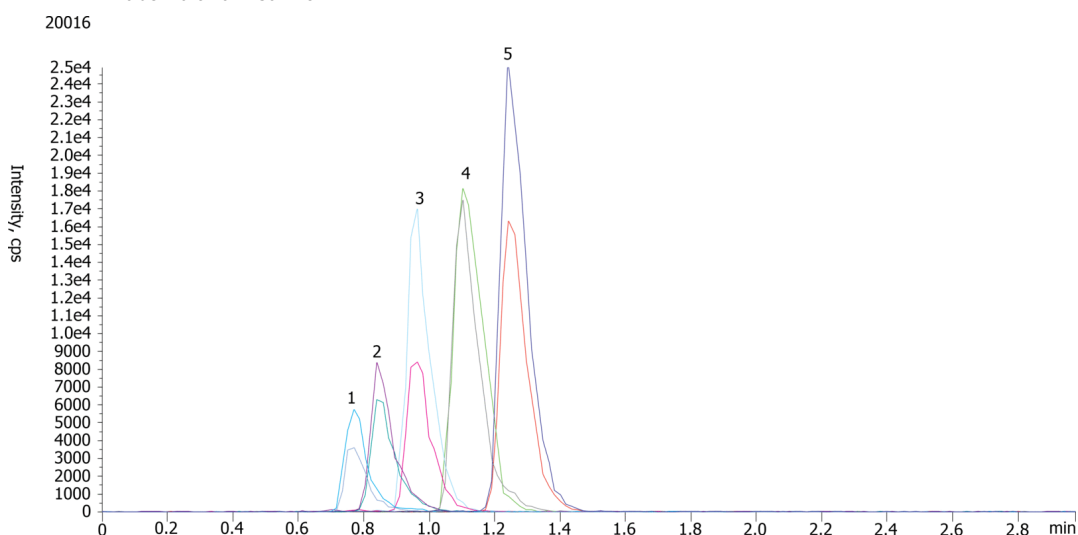
Analyst Note: SecurityGuard™ Guard Cartridge System extends column lifetime.

- SecurityGuard Cartridges, PFP 4 x 2.0mm ID, 10/Pk Part No.: AJ0-8326

- Holder Part No.: KJ0-4282



Products used in this application:



ANALYTES:

- 1** Aflatoxin M1
Retention Time: 0.77 min
- 2** Aflatoxin G2
Retention Time: 0.85 min
- 3** Aflatoxin G1
Retention Time: 0.95 min
- 4** Aflatoxin B2
Retention Time: 1.1 min
- 5** Aflatoxin B1
Retention Time: 1.25 min



Sample Preparation Details

for HPLC Application ID No.: 20016

Alfatoxins in Food by LC/MS/MS

PRODUCT DESCRIPTION:

Strata® FL-PR Florisil (170 µm, 80 Å), 500 mg / 3 mL, Tubes , 50/Pk

Order No.: 8B-S013-HBJ

SOLID PHASE EXTRACTION (SPE) PROCEDURE:

Note: The solvent volumes shown below are for a 500 mg bed mass.

The solvent volumes will need to be adjusted for a smaller or larger bed mass.

Condition:

Load:

Pre-Treatment: To 5 g of peanut butter, add 40 mL of Methanol/Water (80:20) containing 0.2 g of sodium chloride. Mechanically stir for 2 hours then filter out residual solids using Whatman filter paper.

Wash:

Dry:

Elute:

Final Prep and Analysis:

Inject: 10 µL on HPLC Tandem Mass Spec (MS-MS) @ (ambient)

ANALYTES:	Spiked Conc. (ng/mL)	Log P	pKa	% Rec	%RSC (n=0)
1 Aflatoxin M1	0				
2 Aflatoxin G2	0				
3 Aflatoxin G1	0				
4 Aflatoxin B2	0				
5 Aflatoxin B1	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 info@phenomenex.com



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