HPLC Application ID No.: **20016**



Alfatoxins in Food by LC/MS/MS

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

50 x 2 mm ID **Dimensions:** Order No: 00B-4447-B0 **Elution Type:** Isocratic

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

Eluent B: Methanol

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

0.4 mL/min Flow Rate: Col. Temp.: 28 °C

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

Detector Info: 3200 QTRAP

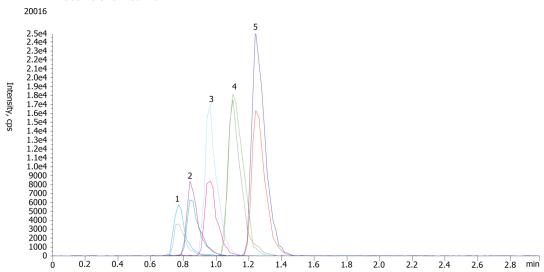
Analyst Note: SecurityGuard™ Guard Cartridge System extends column lifetime.

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

- Holder Part No.: KJ0-4282







ANALYTES:

Aflatoxin M1

Retention Time: 0.77 min

Aflatoxin G2

Retention Time: 0.85 min

Aflatoxin G1

Retention Time: 0.95 min

Aflatoxin B2

Retention Time: 1.1 min

Aflatoxin B1

Retention Time: 1.25 min

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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) PRODCEDURE:

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

The solvent volumes will need to be adjusted for a smaller of larger bed mass.
Condition:
l and
Load:
Pre-Treatment: To 5 g of peanut buffer, 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				

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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