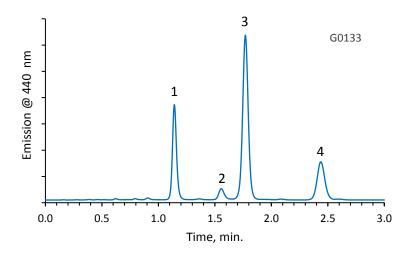
# HALO: | Fused-Core® Particle Technology

Application Note: 144-M

# Isocratic Separation of Aflatoxins on HALO C18



#### **PEAK IDENTITIES:**

- 1. Aflatoxin B1
- 2. Aflatoxin B2
- 3. Aflatoxin G1
- Aflatoxin G2

### **TEST CONDITIONS:**

Column: HALO C18, 2.1 x 50 mm, 2.7 µm

Part Number: 92812-402

A= water

B= 50/50 acetonitrile/methanol

Isocratic: 74/26 A/B Flow Rate: 0.8 mL/min. Pressure: 365 bar Temperature: 30 °C Injection Volume: 5 μL

Sample Solvent: 70/30 water/methanol Detection: Fluorescence Excitation - 360 nm;

Emission - 440 nm

Data Rate: 5 Hz

Response Time: 0.05 sec.

Flow Cell: 3 µL

LC System: Nexera X2

## **STRUCTURES:**

Aflatoxin B1

Aflatoxin G1



Aflatoxin B2



Aflatoxin G2

Aflatoxins are classified as mycotoxins, which are secondary metabolites produced by fungi. Under certain conditions, the fungi can grow on corn, peanuts, or tree nuts resulting in the production of aflatoxins, which are extremely toxic. A fast and sensitive method for separating four aflatoxins is demonstrated using a short HALO C18 column.



