



PEAK IDENTITIES:

- 1. Aflatoxin B1
- 2. Aflatoxin B2
- 3. Aflatoxin G1
- 4. 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.

TEST CONDITIONS:

Column: HALO 90 Å C18, 2.7 µm, 2.1 x 50 mm Part Number: 92812-402 Mobile Phase: A: Water B: 50/50 acetonitrile/methanol Isocratic: 74/26 - A/B Aflatoxin B1 Aflatoxin G1 Flow Rate: 0.8 mL/min Pressure: 365 bar Temperature: 30 °C **Detection:** Fluorescence Excitation - 360 nm; Emission - 440 nm **Injection Volume:** 5.0 µL Sample Solvent: 70/30 water/methanol Aflatoxin B2 Aflatoxin G2 **Response Time:** 0.05 sec Data Rate: 5 Hz Flow Cell: 3.0 µL LC System: Shimadzu Nexera X2

STRUCTURES:

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