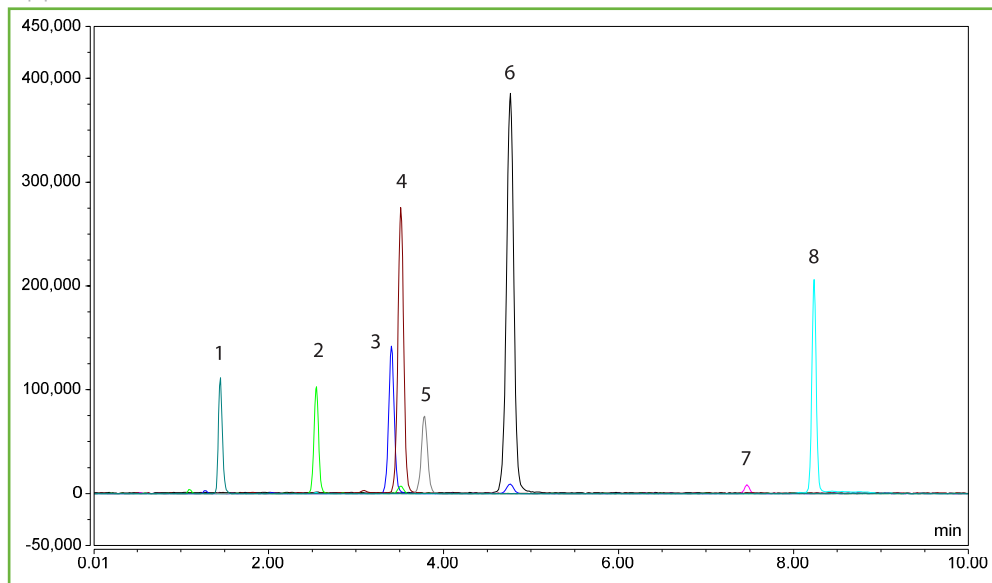




LC-MS Analysis of Multiple Mycotoxins on HALO 90 Å Biphenyl

Application Note 176-M



PEAK IDENTITIES:

1. Fumonisin B1 (m/z: 722.8)
2. Aflatoxin G2 (m/z: 331.3)
3. Aflatoxin B2 (m/z: 315.3)
4. Aflatoxin G1 (m/z: 329.3)
5. Fumonisin B2 (m/z: 706.8)
6. Aflatoxin B1 (m/z: 313.3)
7. Zearalenone (m/z: 319.4)
8. Ochratoxin A (m/z: 404.8)

Mycotoxins are a broad range of compounds that are metabolites of various types of fungi. They can be very toxic when eaten by humans or animals. Many foods and feeds, especially nuts, are analyzed for this reason. Here, a HALO® Biphenyl column is used with a mass spectrometer detector to analyze a variety of these toxic compounds.

TEST CONDITIONS:

Column: HALO 90 Å Biphenyl, 2.7 µm,
2.1 x 100 mm

Part Number: 92812-611

Mobile Phase:

A: Water with 0.1% formic acid/
5mM ammonium formate

B: Acetonitrile with 0.1% formic acid/
5mM ammonium formate

Gradient:	Time (min)	%B
	0.0	32
	5.0	34
	10.0	60

Flow Rate: 0.4 mL/min

Initial Pressure: 182 bar

Temperature: 40 °C

Detection: LC-MS

Injection Volume: 2.0 µL

MS System: Thermo Fisher Orbitrap VelosPro ETD

ESI: +4

Heat Block: 350 °C

Sheath Gas Flow: 34.88

Aux Gas Flow: 10.00

STRUCTURES:

