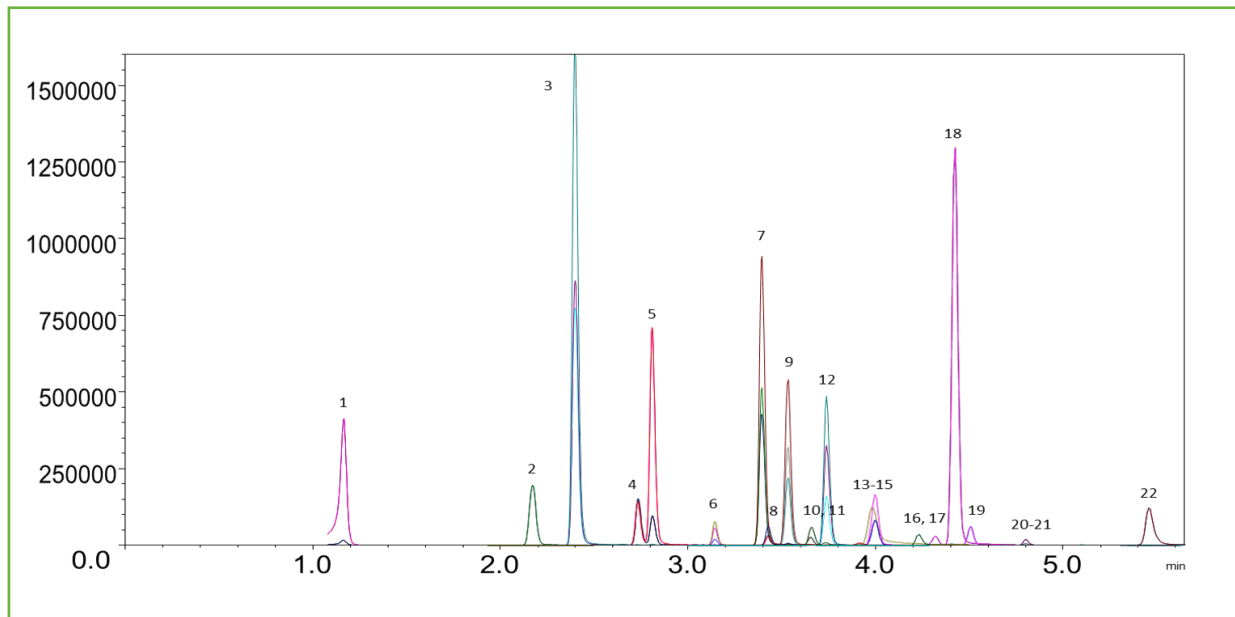




255-M

LC-MS Separation of Mycotoxins on HALO® PFP, 2.7 μm



Peak ID	Mycotoxin	RT (min)	Precursor	Product	Peak ID	Mycotoxin	RT (min)	Precursor	Product
1	Nivalenol	1.166	313.2	175.1	12	Aflatoxin B1	3.738	313.1	241.8
2	Fusarenone X	2.172	355.1	175.1	13	Ochratoxin B	3.916	370.1	324.1
3	Neosolaniol	2.397	399.9	185.2	14	Citrinin	3.981	251.1	233.3
4	15- acetyldeoxynivalenol	2.732	339.1	321.3	15	T2 Toxin	3.998	489.3	245.2
5	3- acetyldeoxynivalenol	2.733	339.1	231.4	16	Ochratoxin A	4.231	405.1	239.2
6	Aflatoxin M1	3.143	329.1	273.6	17	Zearalenone	4.423	319.2	283.1
7	Diacetoxyscripenol	3.394	383.9	247.5	18	Sterigmatocystin	4.506	324.3	310.2
8	Aflatoxin G2	3.427	331.1	198.1	19	Fumonisin B2	4.801	706.8	336.1
9	Aflatoxin G1	3.534	329.1	243.3	20	Fumonisin B3	4.801	706.4	336.1
10	HT2 Toxin	3.653	447.2	345.6	21	Fumonisin B1	5.102	722.4	334.2
11	Aflatoxin B2	3.661	315.1	287.2	22	Beauvericin	5.459	783.9	244.1





TEST CONDITIONS:

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

Part Number: 92812-609

Mobile Phase A: Water, 2 mM Ammonium Formate, 0.1% Formic Acid

Mobile Phase B: Methanol, 2 mM Ammonium Formate, 0.1% Formic Acid

Gradient:	Time	%B
	0.0	15
	4.5	100
	10.0	100

Flow Rate: 0.4 mL/min

Pressure: 280 bar

Temperature: 40 °C

Injection Volume: 7.0 µL

Sample Solvent: Methanol

Detection: +ESI MS/MS

LC System: Shimadzu Nexera X2

ESI LCMS system: Shimadzu LCMS-8040

Mycotoxin contamination can have serious implications, including devastating economic losses, and human and animal death. It is imperative to successfully screen for these toxins to ensure the integrity of the food supply. Environmental analysis can be challenging due to matrix effects and interference, often resulting in low sensitivity and ambiguous results; therefore, it is critical to have a column that has superior performance. The HALO 90 Å PFP can not only meet these challenges, but exceed them by demonstrating high speed and sensitivity. The HALO 90 Å PFP is an ideal column to be used in environmental, and mycotoxin analysis.

