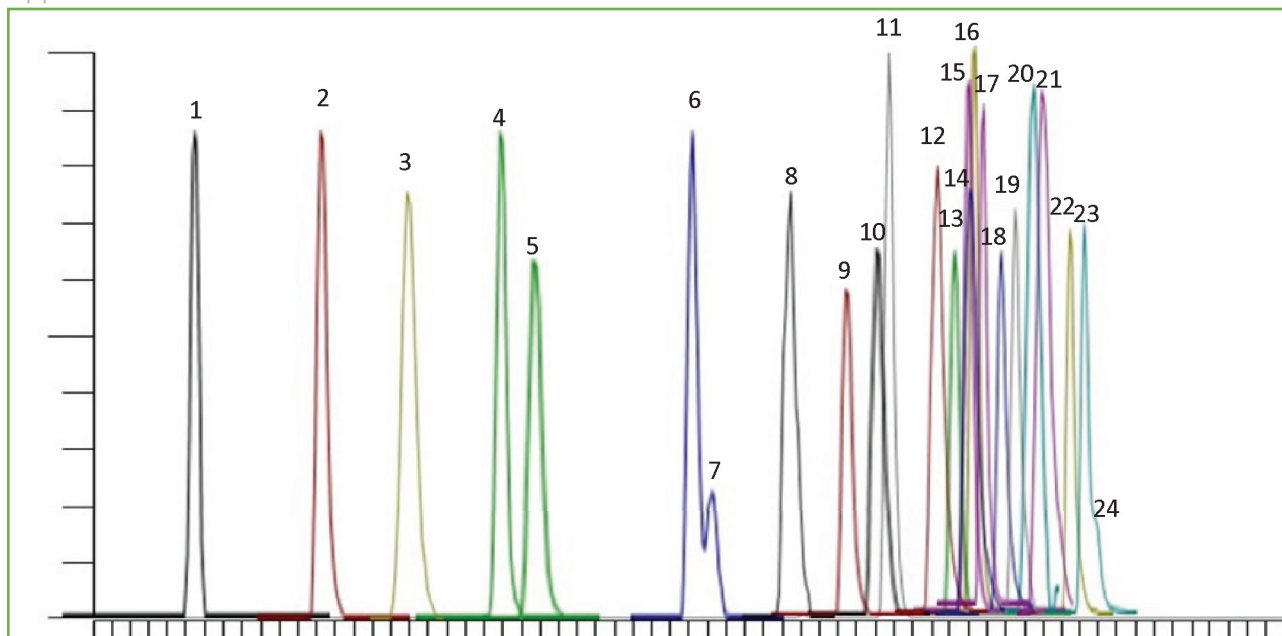




High Throughput, High speed LC-MS/MS Separation of Mycotoxins on HALO® PFP, 2 µm

Application Note 198



The 2 µm HALO® PFP is an ideal choice for high throughput LCMS analysis of mycotoxins, in which multiple isobaric species separation is needed. Note the separation of 24 compounds in 5.5 minutes.

TEST CONDITIONS:

Column: HALO 90 Å PFP, 2 µm, 2.1 x 50 mm

Part Number: 91812-409

Mobile Phase A: Water/2mM ammonium formate/0.1% Formic acid

Mobile Phase B: Methanol/2mM ammonium formate/0.1% Formic acid

Gradient:	Time	% B
	0.01	15
	1.0	25
	2.0	40
	2.50	41
	4.50	100
	5.50	100
	5.51	15
	6.50	Finished

Flow Rate: 0.4 mL/min

Initial Pressure: 485 bar

Temperature: 40 °C

Injection Volume: 1 µL

Sample Solvent: 95/5 water/methanol

LC System: Shimadzu Nexera X2

Detection: +ESI MS/MS





PEAK IDENTITIES:

Peak Number	Compound	Retention Time	Precursor Ion	Product Ion
1	Nivalenol	0.71	313.1235	175.10
2	Deoxynivalenol	1.38	297.1335	249.09
3	Deoxynivalenol-3-glu- coside	1.70	459.1850	193.10
4	Fusarenon X	2.37	355.1387	247.10
5	Neosolaniol	2.87	383.1702	365.16
6	15-Acetyldeoxyniva- lenol	3.33	339.1378	321.15
7	3-Acetyldeoxyniva- lenol	3.36	339.1378	231.15
8	Gliotoxin	3.97	327.0436	196.08
9	Aflatoxin G2	4.27	331.0759	312.97
10	Aflatoxin M1	4.39	329.0604	273.12
11	Aflatoxin G1	4.40	329.0601	242.90
12	Aflatoxin B2	4.44	315.0820	284.87
13	HT-2 + Na	4.47	447.1934	345.10
14	Diacetoxyscirpenol	4.49	367.2637	307.15
15	Aflatoxin B1	4.52	313.0662	286.99
16	Ochratoxin A	4.67	404.0855	238.99
17	T-2 +Na	4.72	489.2049	245.09
18	Ochratoxin B	4.88	370.1321	324.15
19	Citrinin	4.96	251.0860	233.09
20	Zearalenone	5.11	319.1491	283.08
21	Patulin +MEOH	5.11	187.0723	98.95
22	Fumonisin B1	5.24	722.3868	334.25
23	Fumonisin B3	5.41	706.3901	336.25
24	Fumonisin B2	5.44	704.3901	336.25

