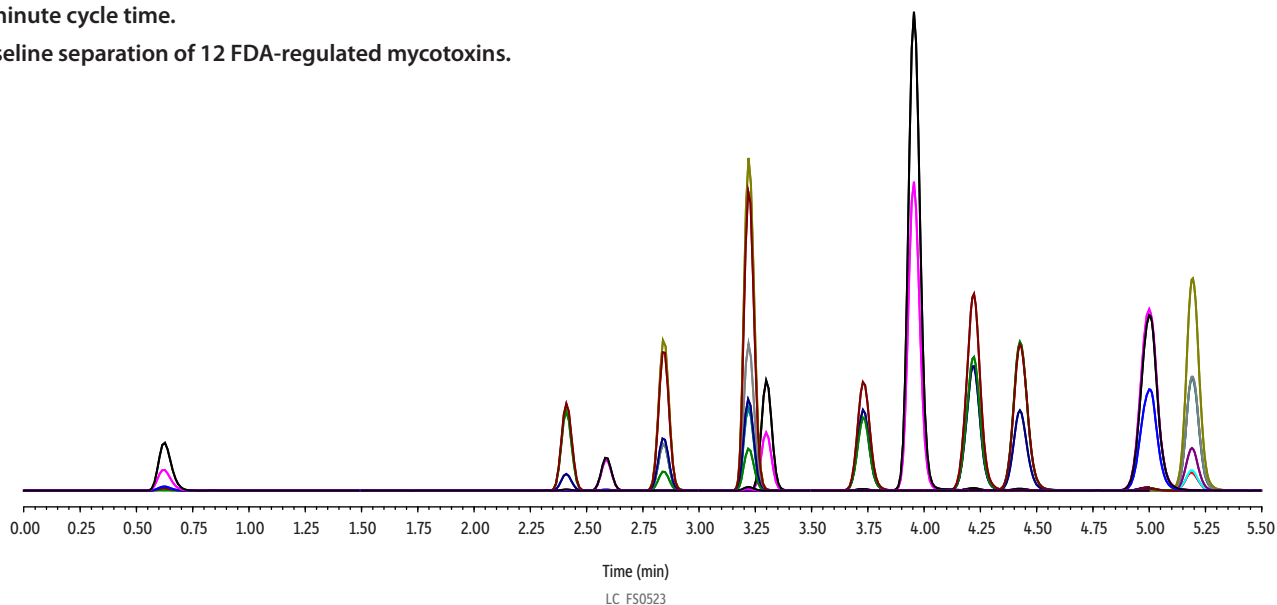


Mycotoxins in Solvent on Raptor Biphenyl by LC-MS/MS

- 7-minute cycle time.
- Baseline separation of 12 FDA-regulated mycotoxins.



Peaks	tr (min)	Conc. (ng/g)	Precursor Ion	Product Ion 1	Product Ion 2
1. Deoxynivalenol	0.64	150	297.3	249.3	231.2
2. Deoxynivalenol-13C15	0.64	125	312.3	263.3	245.2
3. Fumonisin B1	2.45	150	722.5	352.4	334.5
4. HT-2	2.59	150	447.3	285.3	345.3
5. Fumonisin B3	2.85	150	706.5	336.4	318.4
6. Fumonisin B2	3.23	150	706.5	336.3	141.2
7. T-2	3.31	150	489.3	245.2	387.4
8. Aflatoxin G2	3.74	15	331.2	313.3	189.3
9. Aflatoxin G2-13C17	3.74	25	348.3	330.3	200.4
10. Zearalenone	3.96	150	319.3	283.3	187.2
11. Aflatoxin G1	4.22	15	329.2	243.2	200.2
12. Aflatoxin G1-13C17	4.22	25	346.3	257.3	212.3
13. Aflatoxin B2	4.43	15	315.3	287.3	259.2
14. Aflatoxin B2-13C17	4.43	25	332.3	303.3	273.3
15. Aflatoxin B1	4.99	15	313.3	285.2	241.2
16. Aflatoxin B1-13C17	4.99	25	330.3	301.4	255.3
17. Ochratoxin A	5.19	15	404.2	239.3	358.3
18. Ochratoxin A-13C20	5.19	20	424.3	250.2	377.2

Column Raptor Biphenyl (cat.# 9309A52)
Dimensions: 50 mm x 2.1 mm ID
Particle Size: 2.7 µm
Pore Size: 90 Å
Guard Column: Raptor Biphenyl EXP guard column cartridge 5 mm, 2.1 mm ID, 2.7 µm (cat.# 9309A0252)
Temp.: 40 °C

Sample
Diluent: 65:35 Water:methanol
Inj. Vol.: 5 µL

Mobile Phase
A: Water, 2 mM ammonium formate, 0.1% formic acid
B: Methanol, 2 mM ammonium formate, 0.1% formic acid

Time (min)	Flow (mL/min)	%A	%B
0.00	0.5	70	30
0.6	0.5	70	30
0.7	0.5	50	50
3.0	0.5	30	70
4.5	0.5	25	75
5.0	0.5	10	90
5.2	0.5	10	90
5.21	0.5	25	75
6.00	0.5	25	75
6.01	0.5	70	30
7.00	0.5	70	30

Detector MS/MS
Ion Mode: ESI+
Mode: MRM
Instrument UHPLC

Notes Want even better performance when analyzing metal-sensitive compounds? Check out Inert LC columns at www.restek.com/inert.