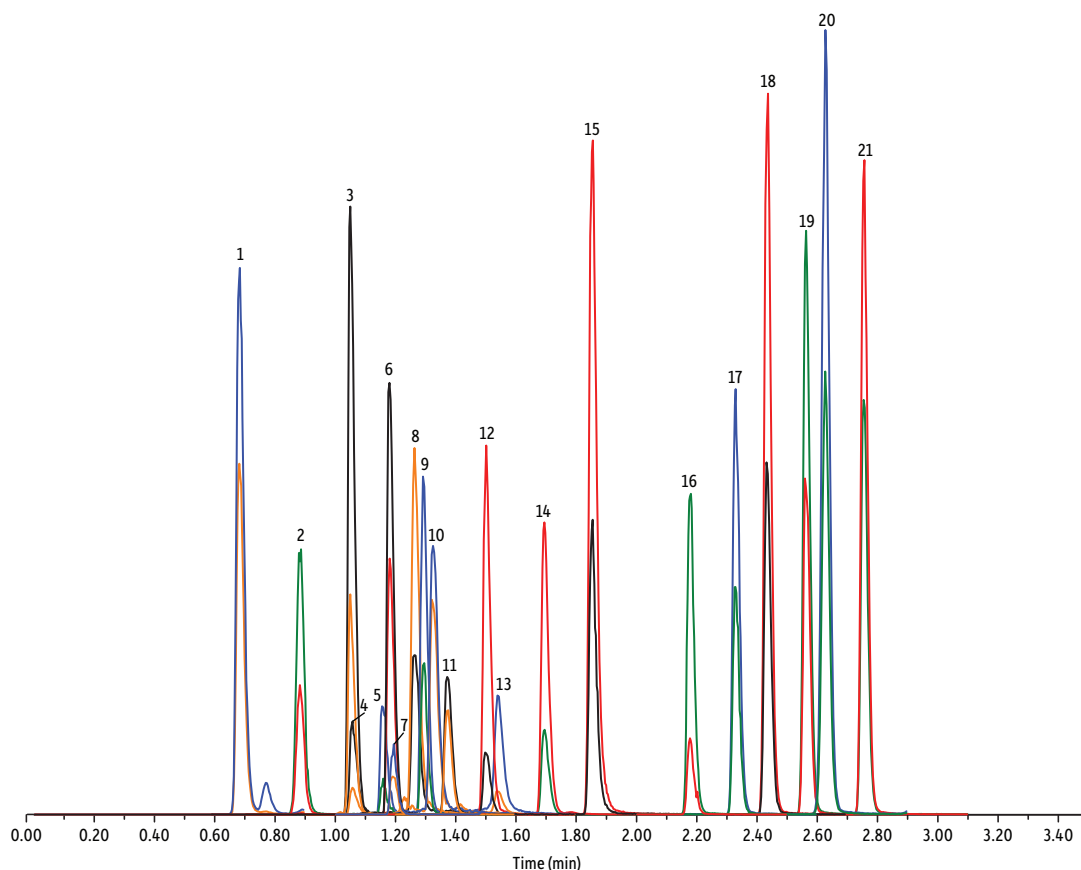


Penicillin, Cephalosporin, and Tetracycline Antibiotics on Raptor™ C18 by LC-MS/MS



LC_FS0500

Peaks	tr (min)	Conc. (ng/mL)	Precursor Ion	Product Ion	Product Ion
1. Desacetyl cephalpirin	0.68	150	382.03	111.92	124.21
2. Amoxicillin	0.89	100	366.24	349.10	208.07
3. Cephalpirin	1.05	50	424.17	292.08	124.14
4. Desfuroyl ceftiofur cysteine disulfide	1.06	300	549.16	183.02	126.00
5. Cefquinome	1.16	200	529.19	134.10	125.12
6. Ampicillin	1.18	50	350.19	106.07	160.06
7. Cefalexin	1.19	100	348.10	158.05	174.05
8. Oxytetracycline	1.26	50	461.27	426.15	443.32
9. Cefalonium	1.29	100	459.16	337.03	123.10
10. Tetracycline	1.32	50	445.28	154.07	427.32
11. Cefacetrile	1.37	300	362.07	258.08	178.01
12. Cefazolin	1.50	100	455.10	323.06	295.09
13. Chlortetracycline	1.54	50	479.27	154.07	371.06
14. Cefoperazone	1.69	100	646.26	143.07	148.02
15. Ceftiofur	1.85	50	524.14	241.08	125.24
16. Penicillin G	2.18	100	335.18	176.07	160.07
17. Penicillin V	2.33	100	351.10	160.06	114.07
18. Oxacillin	2.44	100	402.15	160.05	114.06
19. Cloxacillin	2.56	100	436.15	277.06	160.05
20. Nafcillin	2.63	25	415.19	199.09	171.06
21. Dicloxacillin	2.76	100	470.11	160.05	311.02

Column	Raptor™ C18 (cat.# 9304A12)		
Dimensions:	100 mm x 2.1 mm ID		
Particle Size:	2.7 µm		
Pore Size:	90 Å		
Guard Column:	Raptor™ C18 EXP® guard column cartridge 5 mm, 2.1 mm ID, 2.7 µm (cat.# 9304A0252)		
Temp.:	40 °C		
Sample			
Diluent:	Water		
Conc.:	25–300 ng/mL		
Inj. Vol.:	2 µL		
Mobile Phase			
A:	0.1% Formic acid in water		
B:	0.1% Formic acid in acetonitrile		
Time (min)	Flow (mL/min)	%A	%B
0.00	0.4	90	10
3.00	0.4	20	80
3.01	0.4	90	10
5.00	0.4	90	10
Detector	MS/MS		
Ion Mode:	ESI+		
Mode:	MRM		
Instrument	UHPLC		