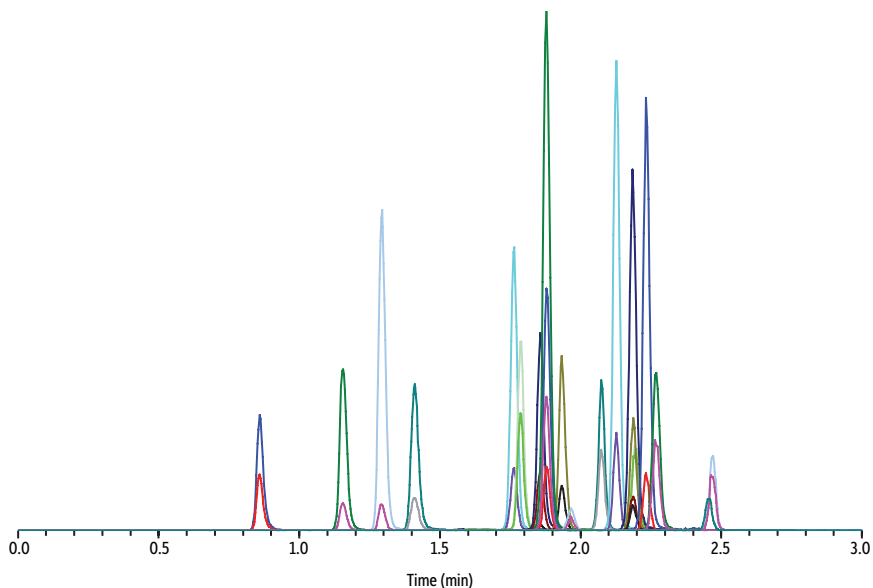


Benzodiazepines in Urine on Raptor™ Biphenyl by LC-MS/MS



LC_CF0581

Peaks	tr (min)	Q1	Q3 Quantifier	Q3 Qualifier
1. 7-Aminoclonazepam	0.86	286.0	222.2	250.3
2. 7-Aminoflunitrazepam	1.15	284.2	135.2	240.2
3. Flurazepam	1.29	388.1	315.1	288.2
4. Midazolam	1.41	326.1	291.2	244.2
5. N-Desmethyflunitrazepam	1.76	300.0	254.1	225.2
6. Lorazepam	1.79	321.0	275.1	302.9
7. Oxazepam	1.86	287.1	241.0	104.1
8. Clonazepam	1.88	315.9	270.2	214.1
9. Nitrazepam	1.88	282.1	236.1	207.2
10. Desalkylflurazepam	1.93	289.0	140.1	165.1
11. 2-Hydroxyethylflurazepam	2.00	333.1	246.1	166.0
12. Nordiazepam	2.07	271.0	140.0	208.0
13. Cllobazam	2.13	301.1	259.1	224.0
14. Estazolam	2.18	294.9	267.1	241.0
15. Triazolam	2.19	343.1	308.2	315.0
16. Flunitrazepam	2.19	314.4	239.1	211.0
17. Temazepam	2.23	301.2	255.0	177.1
18. Alprazolam	2.27	309.4	281.1	205.0
19. Diazepam-d5 (IS)	2.45	290.0	154.1	
20. Diazepam	2.47	284.8	193.1	222.2

Column Raptor™ Biphenyl (cat.# 9309A5E)
 Dimensions: 50 mm x 3.0 mm ID
 Particle Size: 2.7 µm
 Guard Column: Raptor™ Biphenyl EXP® 5 mm, 3.0 mm ID, 2.7 µm (cat.# 9309A0253)
 Temp.: 40 °C

Sample Benzodiazepine custom mix
 A 50 ng/mL standard was prepared in urine. 50 µL of 50 ng/mL urine standard was diluted with 950 µL of water prior to analysis (20x dilution).
 Conc.: 20 µL

Inj. Vol.:
Mobile Phase
 A: 2 mM Ammonium formate and 0.2% formic acid in water
 B: 0.2% Formic acid in methanol

Time (min)	Flow (mL/min)	%A	%B
0.00	0.8	50	50
2.50	0.8	5	95
3.00	0.8	5	95
3.01	0.8	50	50
4.50	0.8	50	50

Detector ABSCIEX API 4000™ MS/MS
Ion Source: TurbolonSpray®
Ion Mode: ESI+
Mode: Scheduled MRM
Instrument API LC-MS/MS