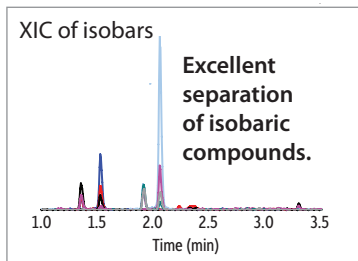
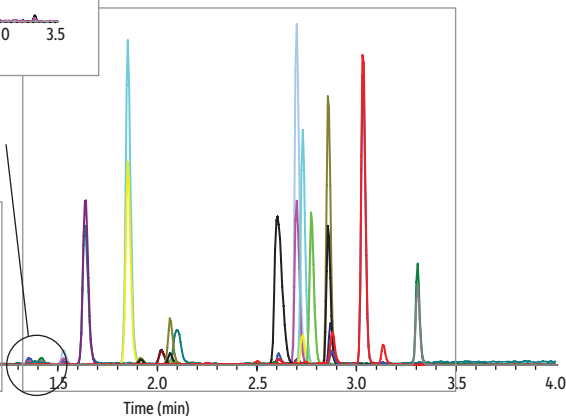
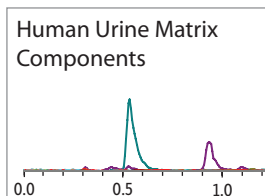


Pain Panel in Urine on Raptor™ Biphenyl (50 x 3.0 mm) by LC-MS/MS



Analytes separated from early-eluting matrix.



LC_CF0568

Peaks	t _r (min)	Precursor ion	Product ion 1	Product ion 2
1. Morphine*	1.34	286.2	152.3	165.3
2. Oxymorphone	1.40	302.1	227.3	198.2
3. Hydromorphone*	1.52	286.1	185.3	128.2
4. Amphetamine	1.62	136.0	91.3	119.2
5. Methamphetamine	1.84	150.0	91.2	119.3
6. Codeine*	1.91	300.2	165.4	153.2
7. Oxycodone	2.02	316.1	241.3	256.4
8. Hydrocodone*	2.06	300.1	199.3	128.3
9. Norbuprenorphine	2.59	414.1	83.4	101.0
10. Meprobamate	2.61	219.0	158.4	97.2
11. Fentanyl	2.70	337.2	188.4	105.2
12. Buprenorphine	2.70	468.3	396.4	414.5
13. Flurazepam	2.73	388.2	315.2	288.3
14. Sufentanil	2.77	387.2	238.5	111.3
15. Methadone	2.86	310.2	265.3	105.3
16. Carisoprodol	2.87	261.2	176.3	158.1
17. Lorazepam	3.03	321.0	275.4	303.1
18. Diazepam	3.31	285.1	193.2	153.9

*An extracted ion chromatogram (XIC) of the isobars is presented in the inset.

Column: Raptor™ Biphenyl (cat.# 9309ASE); Dimensions: 50 mm x 3.0 mm ID; Particle Size: 2.7 μm; Pore Size: 90 Å; Temp.: 30 °C; **Sample:** Diluent: urine; mobile phase A: mobile phase B (17:76:7); Conc.: 10-100 ng/mL; Inj. Vol.: 10 μL **Mobile Phase:** A: 0.1% formic acid in water, B: 0.1% formic acid in methanol; **Gradient (%B):** 0.00 min (10%), 1.50 min (45%), 2.50 min (100%), 3.70 min (100%), 3.71 min (10%) 5.00 min (10%); **Flow:** 0.6 mL/min; **Detector:** AB SCIEX API 4000™ MS/MS; Ion Source: TurbolonSpray™; Ion Mode: ESI+; **Instrument:** API LC-MS/MS; **Notes:** Lorazepam was prepared at 100 ng/mL; all other analytes are 10 ng/mL.