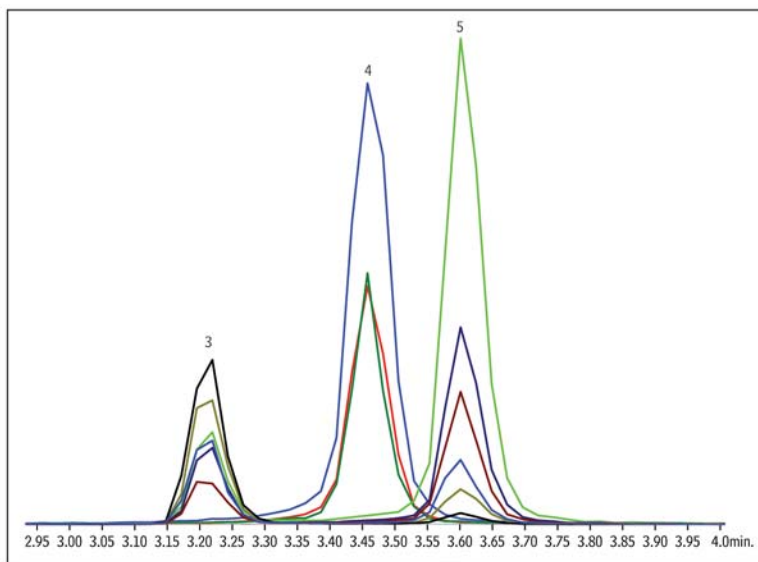
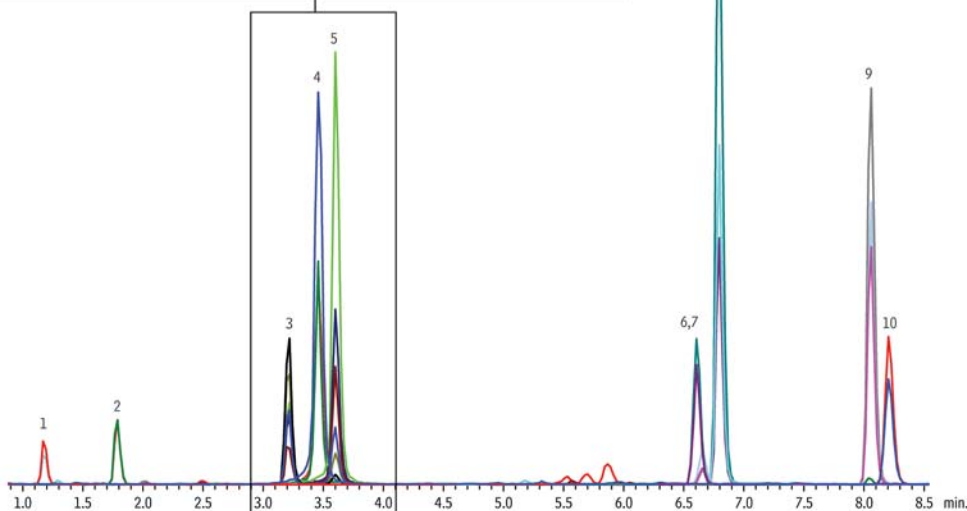


Pain Management Drugs in Urine on Ultra II® Biphenyl (LC/MS/MS)



Peaks	RT (min.)	MRM1	MRM2
1. Acetaminophen	1.18	152/110	152/65
2. Morphine	1.79	286/157	286/181
3. Codeine	3.21	300/165	300/215
4. Oxycodone	3.46	316/298	316/241
5. Hydrocodone	3.60	300/199	300/171
6. Fentanyl	6.61	337/132	337/216
7. Buprenorphine	6.66	468/187	468/84
8. Lorazepam	6.79	321/275	321/229
9. Diazepam	8.06	285/154	285/193
10. Methadone	8.21	310/77	310/223

Recommended for opiates.



LC_CF0516

Column Ultra II® Biphenyl (cat.# 9609352)
 Dimensions: 50 mm x 2.1 mm ID
 Particle Size: 3 µm
 Pore Size: 100 Å
 Temp.: 40 °C
Sample
 Conc.: 5 ng/mL in 1:10 urine:mobil phase
 Inj. Vol.: 5 µL
Mobile Phase

Time (min.)	Flow (mL/min.)	%A	%B
0	0.5	90	10
10	0.5	0	100
10.1	0.5	90	10
12	0.5	90	10

Detector Applied Biosystems/MDS Sciex LC/MS/MS
 Model #: API-5000™
 Ion Source: TurboIonSpray®
 Ion Mode: ESI+
 Curtain Gas: 25 psi (172.4 kPa)
 Gas 1: 60 psi (413.7 kPa)
 Gas 2: 40 psi (275.8 kPa)
 Source Temp.: 550 °C
 Source Voltage: 2000 V
 Mode: MRM
 Dwell Time: 50 ms
Instrument Applied Biosystems/MDS Sciex
 LC/MS/MS System

Acknowledgement Special thanks to Applied Biosystems for providing instrument time.

For more information on Biphenyl columns, visit
www.restek/biphenyl

