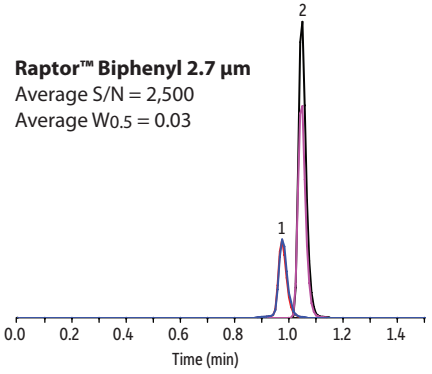
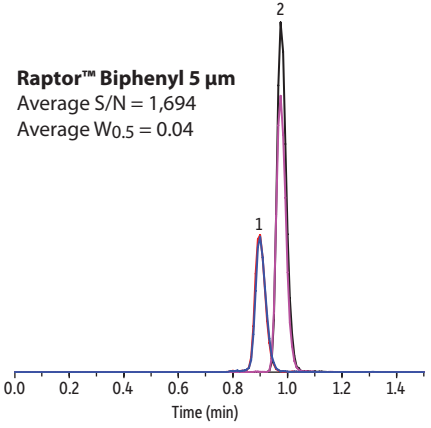
Comparison of Naltrexone and 6-β-Naltrexol in Urine on Raptor™ Biphenyl 2.7 µm and 5 µm Columns by LC-MS/MS





LC_CF0597

Peaks	tR 2.7 µm (min)	tR 5 µm (min)	Precursor Ion	Product Ion 1	Product Ion 2
1. Naltrexone	0.98	0.90	342.4	270.1	267.1
2. 6-β-Naltrexol	1.06	0.98	344.4	308.0	254.1

Column
Temp.: 30 °C
Sample
Conc.: Prepared 500 ng/mL in human urine. Diluted 5x in mobile phase A. Final conc. = 100 ng/mL
Inj. Vol.: 10 µL
Mobile Phase
A: Water + 0.1% formic acid + 2 mM ammonium formate
B: Water:methanol (5:95) + 0.1% formic acid + 2 mM ammonium formate

Time (min)	Flow (mL/min)	%A	%B
0.00	0.5	70	30
1.50	0.5	0	100
1.51	0.5	70	30
3.00	0.5	70	30

Max Pressure: 110 bar
Detector MS/MS
Ion Mode: ESI+
Instrument HPLC
Notes Top: Raptor™ Biphenyl 50 mm x 2.1 mm, 2.7 µm (cat.# 9309A52)
Bottom: Raptor™ Biphenyl 50 mm x 2.1 mm, 5 µm (cat.# 9309552)

The S/N and $W_{0.5}$ calculations were made using Product Ion 1 (black trace).

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