

M3G and M6G in Urine Post-Hydrolysis with Purified β -Glucuronidase from Abalone on Force Biphenyl

Peaks	t_R (min)	Precursor Ion	Product Ion	Product Ion
1. Morphine-3- β -D-glucuronide	0.61	462.1	286.0	152.1
2. Morphine-6- β -D-glucuronide	1.17	462.1	286.0	152.1

Column Force Biphenyl (cat. # 9629252)

Dimensions: 50 mm x 2.1 mm ID

Particle Size: 1.8 μ m

Guard Column: UltraShield UHPLC precolumn filter, 0.2 μ m frit (cat. # 25809)

Temp.: 40 °C

Sample

Conc.: A 750 ng/mL standard was prepared in 1 mL of urine. 150 μ L of the fortified urine was incubated for 16 h at 60 °C with 20 μ L of purified β -glucuronidase from abalone and 10 μ L of internal standard. Following incubation, 600 μ L of acetonitrile was added, and then the solution was vortexed and centrifuged. 500 μ L of the supernatant was dried down and reconstituted in 1 mL of 0.1% formic acid in water.

Inj. Vol.: 2 μ L

Mobile Phase

A: 0.1% Formic acid in water

B: 0.1% Formic acid in methanol

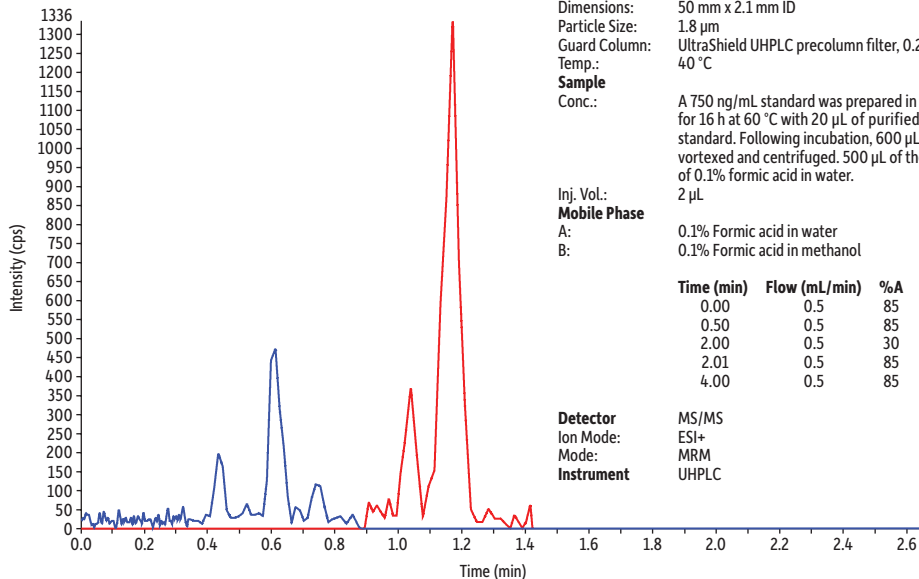
Time (min)	Flow (mL/min)	%A	%B
0.00	0.5	85	15
0.50	0.5	85	15
2.00	0.5	30	70
2.01	0.5	85	15
4.00	0.5	85	15

Detector MS/MS

Ion Mode: ESI+

Mode: MRM

Instrument UHPLC



LC_CF0682