

CLICK ON THE UNDERLINED BLUE TEXT FOR DETAILS ON THE PRODUCTS USED IN THIS APPLICATION

TEST CONDITIONS

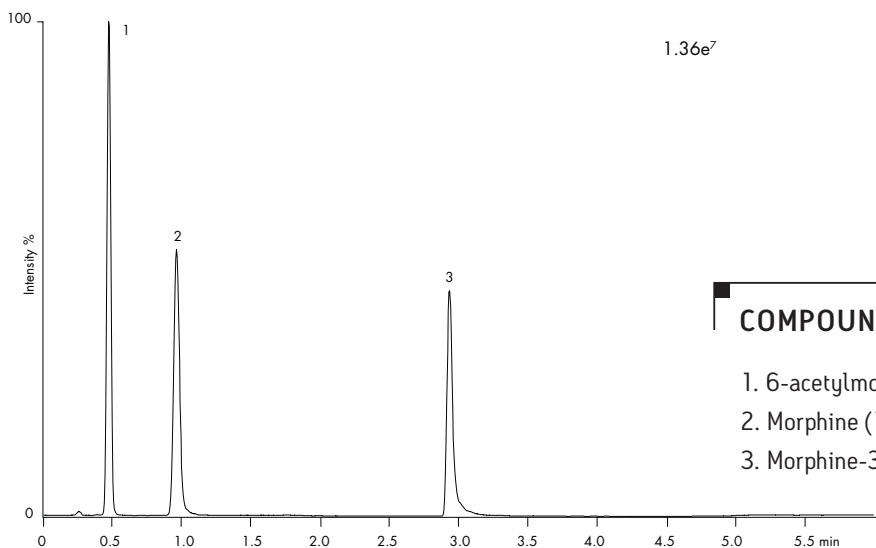
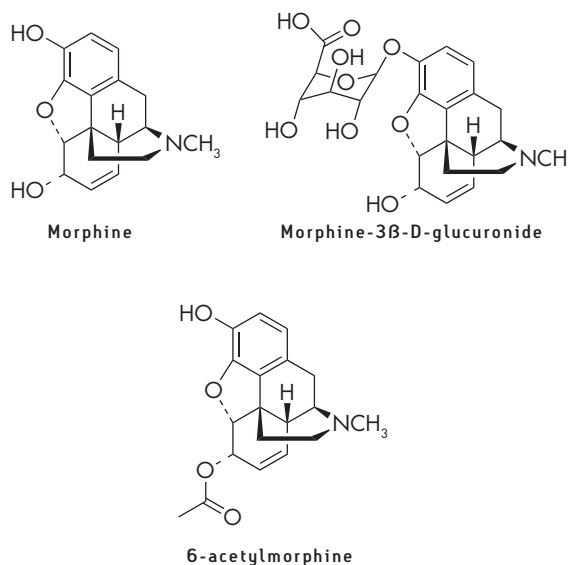
Chromatographic Conditions

Column:	ACQUITY UPLC® BEH Amide, 2.1 x 50 mm, 1.7 µm		
Part Number:	186004800		
Mobile Phase A:	50/50 MeCN/H ₂ O with 10 mM NH ₄ COOH and 0.125% HCOOH, pH 3		
Mobile Phase B:	90/10 MeCN/H ₂ O with 10 mM NH ₄ COOH and 0.125% HCOOH, pH 3		
Flow Rate:	0.6 mL/min		
Gradient:	Time (min)	%A	%B
	Initial	0.1	99.9
	1.05	0.1	99.9
	4.35	99.9	0.1
	4.50	0.1	99.9
	6.00	0.1	99.9
Injection Volume:	5 µL (PLNO)		
Sample Diluent:	75/25 MeCN/MeOH with 0.2% HCOOH		
Column Temperature:	30 °C		
Weak Needle Wash:	95/5 MeCN/H ₂ O		
Instrument:	Waters ACQUITY UPLC with ACQUITY SQD		

Mass Spectrometer Conditions

Ionization Mode:	ES ⁺
Capillary:	3.0 KV
Cone:	30 V (6-Acetyl morphine and Morphine), 40 V (Morphine-3β-D-glucuronide)
Source Temperature:	120 °C
Desolvation Temperature:	350 °C
Desolvation Gas Flow (L/Hr):	800
SIR m/z:	329.5 (6-Acetyl morphine); 287.5 (Morphine) 463.6 (Morphine-3β-D-glucuronide)
Dwell Time:	0.1 s

STRUCTURES



COMPOUNDS

1. 6-acetylmorphine (100 ng/mL)
2. Morphine (100 ng/mL)
3. Morphine-3 β-D-glucuronide (5 g/mL)