Opiates in Urine by LC-MS/MS

ACE®
Ultra-inert
UHPLC & HPLC Columns

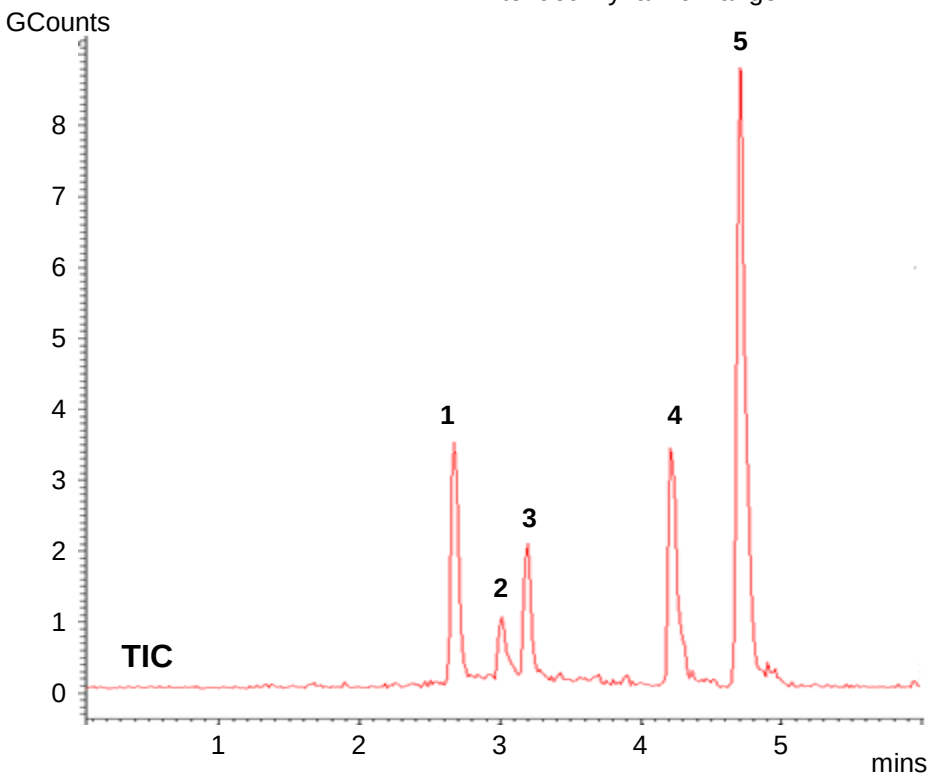
Application #AN1230

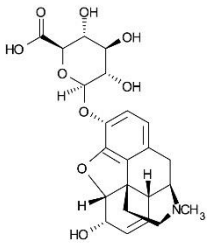
Conditions

Column:	ACE Excel 3 SuperC18
Dimensions:	75 x 2.1 mm
Part Number:	EXL-1111-7502U
Mobile Phase:	A: 5 mM ammonium hydroxide pH 10.8 in H_2O
	B: 5 mM ammonium hydroxide pH 10.8 in MeOH/H_2O (90:10 v/v)

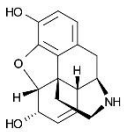
Time (mins)	%B
0	5
5	95

Flow Rate:	0.6 mL/min
Injection:	2 µL
Temperature:	60 °C
Detection:	Varian 320 Triple Quadrupole MS
	Electrospray voltage: +5 kV
	Inlet capillary voltage: 30 V
	CID with argon at 1.5 mTorr
	Collision cell potential ranges from 5 to 17 V
	Drying gas (nitrogen) temperature: 325 °C
	Nebulizing gas (nitrogen) pressure: 35 psi
	Extended Dynamic Range

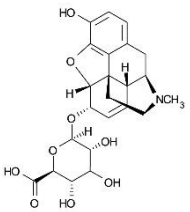




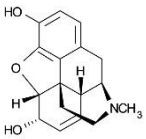
1. Morphine 3-β-D-glucuronide
LOD (est) 100 ppb
(*m/z* 462.0 → 285.9)



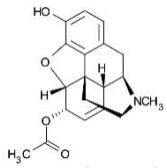
2. Normorphine
LOD (est) 100 ppb
(*m/z* 272.0 → 165.0)



3. Morphine 6-β-D-glucuronide
LOD (est) 100 ppb
(*m/z* 462.0 → 285.9)



4. Morphine
LOD (est) 20 ppb
(*m/z* 286.0 → 200.9)



5. 6-Acetylmorphine
LOD (est) 10 ppb
(*m/z* 328.0 → 164.9)

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