## Waters™

Applikationsbericht

# Analysis of Morphine and Its Polar Metabolites Using Atlantis T3 Columns

Waters Corporation



This is an Application Brief and does not contain a detailed Experimental section.

**Abstract** 

This application brief demonstrates analysis of r Columns.	morphine and its polar metabolites using Atlantis T3
Introduction	
The compunds used in this study are -  1. 10-Hydroxymorphine  2. Morphine-3ß-D-glucuronide  3. Morphine-6ß-D-glucuronide  4. Morphine  5. Morphine N-oxide  6. 6-Acetylmorphine	
Experimental	
Test Conditions	
Column:	Atlantis T3, 2.1 x 50 mm, 3 μm
Part number:	186003717
Mobile phase A:	0.1% FA in water

ACN

0.5 mL/min

Mobile phase B:

Flow rate:

Injection volume: 15  $\mu$ L

Column temperature: 45 °C

MRM: morphine 286 > 201

morphine-3ß-D-glucuronide 462 > 286

morphine-6ß-D-glucuronide 462 > 286

morphine N-oxide 302 > 162

6-acetylmorphine 328 > 165

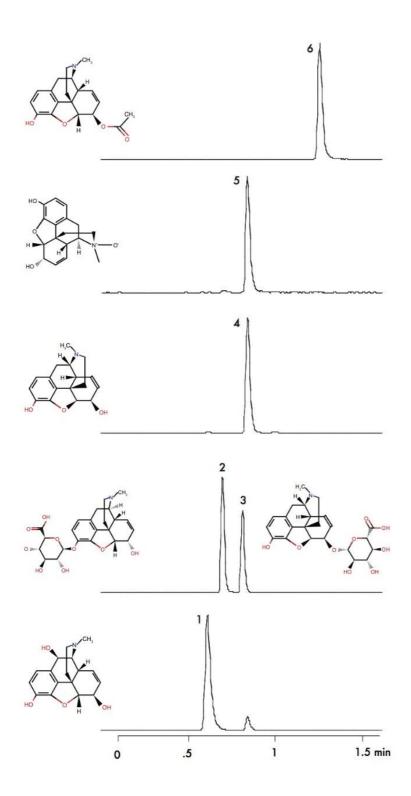
10-hydroxymorphine 302 > 58

Instrument: Waters ACQUITY UPLC System

#### Gradient

Time Profile (min) %A %B
0.00 98 2
5.00 2 98

### Results and Discussion



#### ACQUITY UPLC System <a href="https://www.waters.com/514207">https://www.waters.com/514207</a>

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