

Application Report 46

Drugs of Abuse on Discovery HS F5

Separation of four common drugs of abuse on a Discovery HS F5 column with mass spectrometric detection.

Key Words

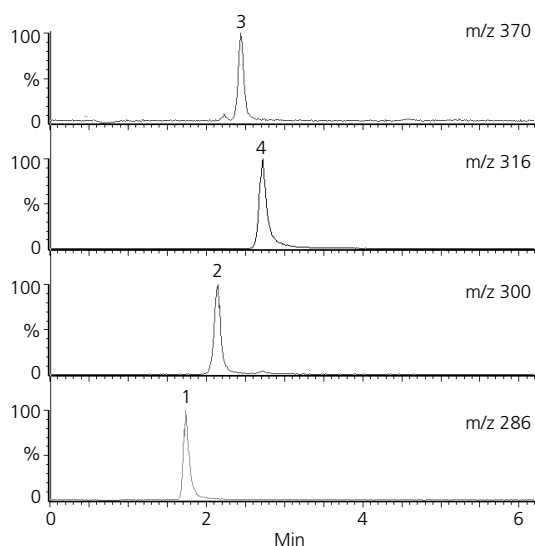
heroin hydrochloride, H-5144, 1502-95-0, oxycodone hydrochloride, O-2628, 124-90-3, codeine, C-1653, 76-57-3, morphine sulfate, 64-31-3, M-9524, Discovery HS F5, 567500-U, mass spectrometry, LC/MS

Author: Carmen T. Santasania and Christy Davis

Raw Data File Name: doa2

Acquisition System: w2790

Notebook Reference: 1468-51



G002152

Conditions

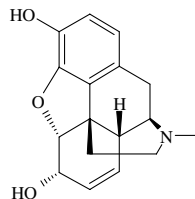
Column: Discovery HS F5, 5cm x 2.1mm ID, 3 μ m
Cat. No.: 567500-U
Mobile Phase: 40:60, 10mM ammonium acetate (pH 7.0):CH₃CN
Flow Rate: 0.2mL/min
Temp.: 40°C
Det.: ESI (+)
Inj.: 10 μ L
Sample: 1 μ g/mL in 50:50, 10mM ammonium acetate, pH 7:CH₃CN

Peak IDs

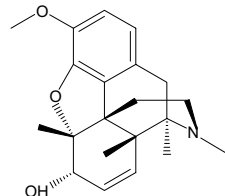
1. Morphine
2. Codeine
3. Heroin
4. Oxycodone

Structures

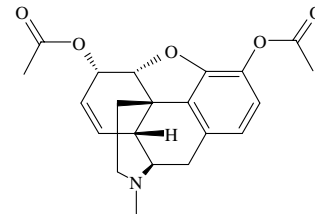
Morphine - G000556



Codeine - G000222



Heroin - G002153



Oxycodone - G002154

