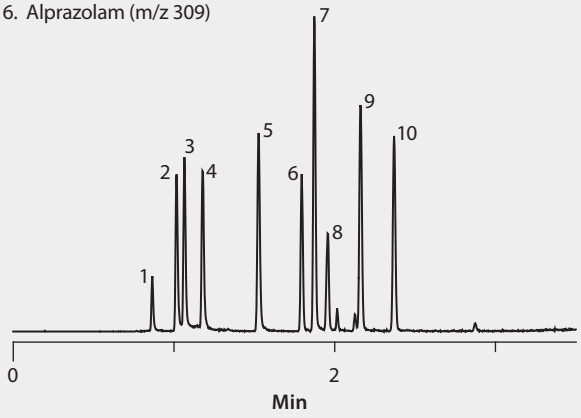
UHPLC/MS Analysis of Heroin and Related Compounds on Titan™ C18

This method shows heroin and related compounds separated on a Titan C18 column and MS detection. Fluka LC-MS Ultra CHROMASOLV solvents were used to supply low background interference and low particulate contaminants for robust, trouble-free operation. Cerilliant CRMs provided reliable identification and quantification.

market focus	Forensics and Toxicology
column	Titan C18 5 cm x 2.1 mm I.D., 1.9 µm particles (577122-U)
mobile phase	[A] 5 mM ammonium acetate in 95:5, water:acetonitrile; [B] 5 mM ammonium acetate in 5:95, water:acetonitrile
gradient	0 to 100% B in 3 min, held at 100% B for 1 min
flow rate	0.6 mL/min
pressure	6770 psi (467 bar)
column temp.	35 °C
detector	MS-TOF, XIC
injection	0.5 µL
sample	1 µg/mL in 95:5, water:methanol
Application No.	G006116

1. Morphine (m/z 286)
2. Procaine (m/z 237)
3. Codeine (m/z 300)
4. 3-Monoacetylmorphine (m/z 328)
5. Heroin (m/z 370)
6. Alprazolam (m/z 309)
7. Papaverine (m/z 340)
8. Flunitrazepam (m/z 314)
9. Diazepam (m/z 285)
10. Noscapine (m/z 414)



Related Products

analytical column
Titan™ C18 UHPLC Column, 1.9 micron (Supelco 577122-U)
mobile phase component
Acetonitrile (Fluka 14261)
Ammonium acetate (Fluka 14267)
Water (Fluka 14263)
standard
Alprazolam solution (Cerilliant A-903)
Codeine solution (Cerilliant C-006)
Diazepam solution (Fluka D9900)
Flunitrazepam solution (Cerilliant F-907)
Heroin solution (Cerilliant H-038)
Morphine solution (Cerilliant M-005)
Noscapine hydrochloride hydrate (Fluka N9007)
Papaverine hydrochloride (Sigma P3510)
Procaine hydrochloride (Fluka 46608)