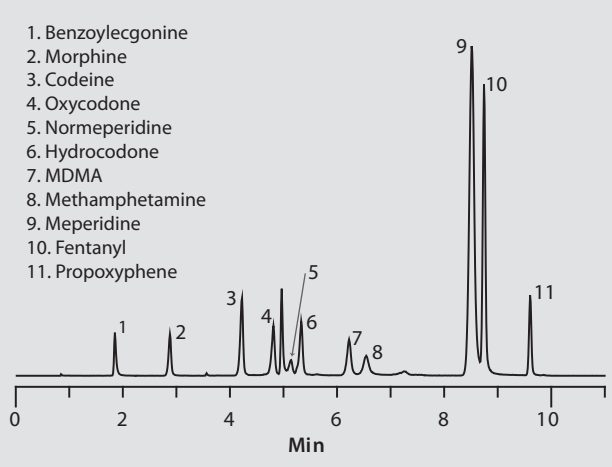
LC/MS/MS Analysis of Drugs of Abuse: Generic Screening on Ascentis® Express F5

Shown here is a method to rapidly screen a sample for a variety of abused substances using an Ascentis Expres F5 column. 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	Ascentis Express F5, 10 cm x 2.1 mm I.D., 2.7 µm particles (53569-U)
mobile phase	[A] 5 mM ammonium formate water pH 4.0 formic acid; [B] 5 mM ammonium formate (95:5 acetonitrile:water)
gradient	20%B for 0.5 min; to % B in 5.5 min; held at 100%B for 3 min
flow rate	0.3 mL/min
pressure	2538 psi (175 bar)
column temp.	35 °C
detector	MS, ESI(+), TIC, m/z 100-1000
injection	1 µL
sample	each compound 1000 ng/mL in 40:60 (water:methanol)
Application No.	G005881



Related Products

analytical column
Ascentis® Express F5, 2.7 Micron HPLC Column (Supelco 53569-U)

mobile phase component
Ammonium formate (Fluka 14266)
Methanol (Fluka 14262)
Water (Fluka 14263)

standard
Benzoylecgonine solution (Cerilliant B-004)
Codeine solution (Cerilliant C-006)
Fentanyl solution (Cerilliant F-013)
Hydrocodone solution (Cerilliant H-003)
(±)-MDMA solution (Cerilliant M-013)
Meperidine solution (Cerilliant M-035)
(±)-Methamphetamine solution (Cerilliant M-009)
Morphine solution (Cerilliant M-005)
Normeperidine solution (Cerilliant N-017)
Oxycodone solution (Cerilliant O-002)
(+)-Propoxyphene solution (Cerilliant P-011)