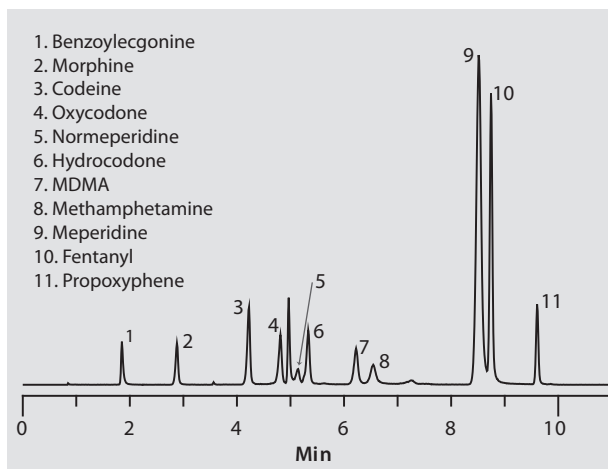


## LC/MS/MS Analysis of Drugs of Abuse: Generic Screening on Ascentis® Express F5

Shown here is a method to rapidly screen a sample for a variety of abused substances using an Ascentis Express 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**

Benzoylcegonine 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](#))