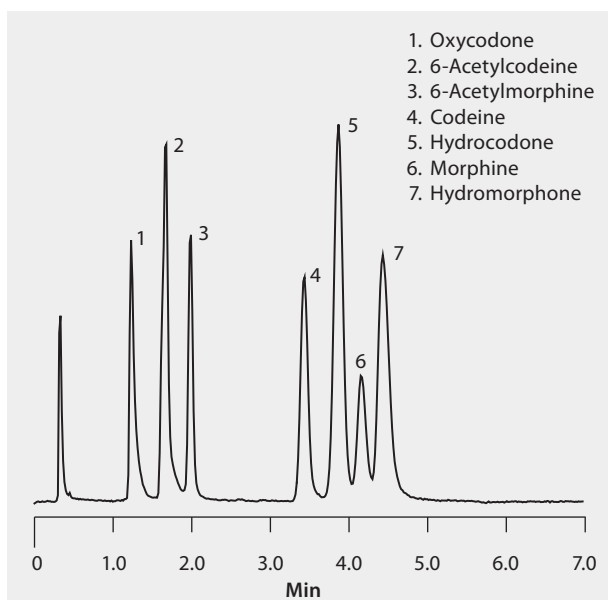


## LC-MS (TOF) Analysis of Opioids and Opiate-Dependence Management Drugs on Ascentis® Express HILIC

The rapid analysis by HPLC with TOF-MS detection of seven opioids is shown here using an Ascentis Express HILIC column. Cerilliant CRMs were used to ensure reliable MS identification and quantification.

market focus ..... Clinical Testing; Forensics and Toxicology  
 column ..... Ascentis Express HILIC, 5 cm x 2.1 mm I.D., 2.7 µm particles (53934-U)  
 mobile phase ..... 2 mM ammonium formate in 90:10 (v:v) acetonitrile:water  
 flow rate ..... 0.3 mL/min  
 column temp. .... 55 °C  
 detector ..... TOF/MS  
 injection ..... 2 µL  
 sample ..... 400 ng/mL in acetonitrile  
 Application No. .... **G006153**



**Components**

- Oxycodone solution ([Cerilliant O-002](#))
- 6-Acetylcodeine solution ([Cerilliant A-053](#))
- 6-Acetylmorphine, 1.0 mg/mL solution ([Cerilliant A-009](#))
- Codeine solution ([Cerilliant C-006](#))
- Hydrocodone solution ([Cerilliant H-003](#))
- Morphine solution ([Cerilliant M-005](#))
- Hydromorphone solution ([Cerilliant H-004](#))

**Related Products**

- analytical column**
- Ascentis® Express HILIC, 2.7 Micron HPLC Column ([Supelco 53934-U](#))
- eluent**
- Acetonitrile ([Fluka 14261](#))
- Ammonium formate ([Fluka 70221](#))
- Water ([Fluka 14263](#))
- standard**
- 6-Acetylcodeine solution ([Cerilliant A-053](#))
- 6-Acetylmorphine, 1.0 mg/mL solution ([Cerilliant A-009](#))
- Codeine solution ([Cerilliant C-006](#))
- Hydrocodone solution ([Cerilliant H-003](#))
- Hydromorphone solution ([Cerilliant H-004](#))
- Morphine solution ([Cerilliant M-005](#))
- Oxycodone solution ([Cerilliant O-002](#))