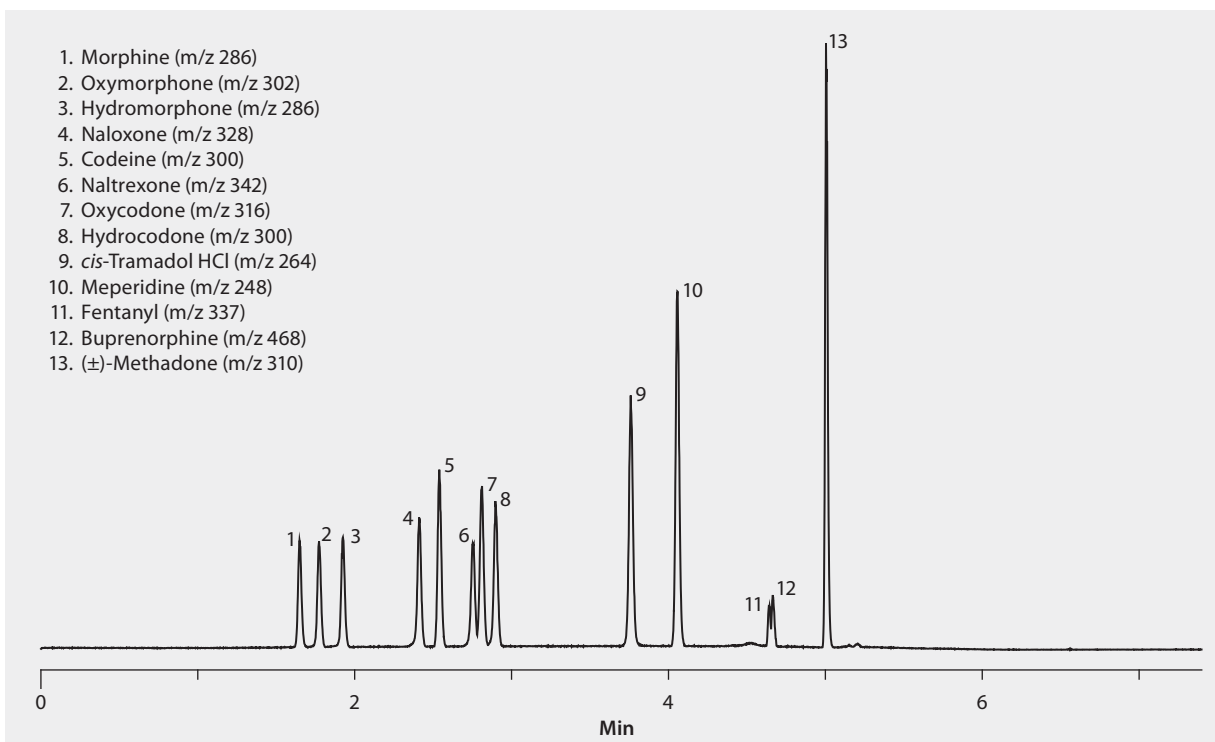


## LC/MS Analysis of Pain Management Opioids on Ascentis® Express Phenyl-Hexyl

Balancing the management of chronic pain against the real possibility of opioid dependence and subsequent abuse is an ongoing conversation in the healthcare industry. Analysts need reliable tools to identify and quantify the drugs and metabolites in patients to tip the balance toward pain management and away from abuse. LC/MS is becoming the tool of choice for this purpose. Shown here is the rapid, efficient LC/MS analysis of 13 pain management opioids on an Ascentis® Express Phenyl-Hexyl U/HPLC column. Cerilliant CRMs provided reliable identification and quantification.

market focus ..... Forensics and Toxicology; Pharmaceutical (small molecule)  
 column ..... Ascentis Express Phenyl-Hexyl 10 cm x 2.1 mm, 2.7 µm particles (53336-U)  
 mobile phase ..... [A] water with 0.1% formic acid; [B] methanol with 0.1% formic acid  
 gradient ..... 10 to 45% B in 3 min; to 100% B in 2 min; held for 2.4 min  
 flow rate ..... 0.3 mL/min  
 pressure ..... 6940 psi (478 bar)  
 column temp. .... 30 °C  
 detector ..... MS, ESI(+), SIR  
 injection ..... 2 µL  
 sample ..... Pain Management Multi-Component Opiate Mixture-13 (P-071) dilute to 30-300 ng/mL in 99:1, water:methanol  
 Application No. .... **G1006463**



**Related Products**

- analytical column**  
Ascentis® Express Phenyl-Hexyl, 2.7 Micron HPLC Column ([Supelco 53336-U](#))
- mobile phase component**  
Formic acid ([Fluka 14265](#))  
Methanol ([Fluka 14262](#))  
Water ([Fluka 14263](#))
- standard**  
Pain Management Multi-component Opiate Mixture-13 solution ([Cerilliant P-071](#))