

# Application Report 86

## Analysis of Phencyclidine and Hydroxy Metabolite Using Ascentis™ C18

This application demonstrates the suitability of Ascentis C18 for the efficient separation of the anesthetics phencyclidine and 4-hydroxyphencyclidine by LC-MS.

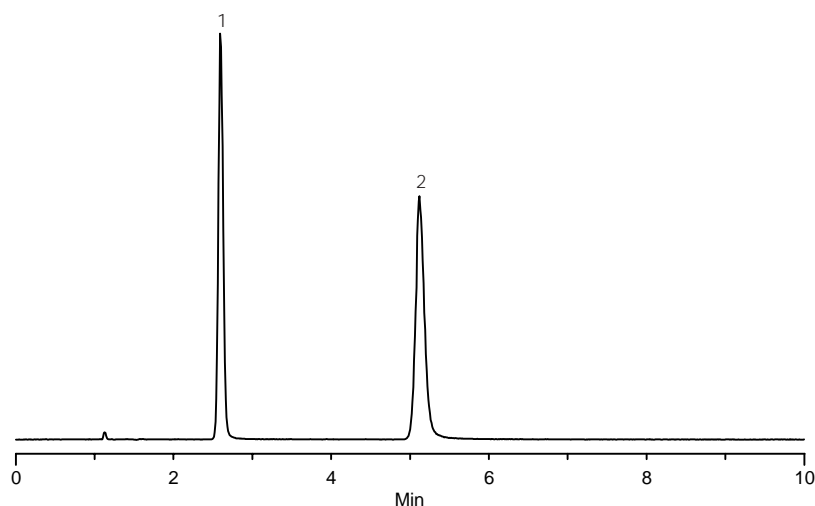
### Key Words

Ascentis C18, phencyclidine, 77-10-1, P3029, PCP, 4-hydroxyphencyclidine, 581324-U, anesthetics, LC-MS, mass spectrometry

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Acquisition System: Waters Alliance  
2690 ID 9371

Notebook Reference: 1495-28



G002342

### Conditions

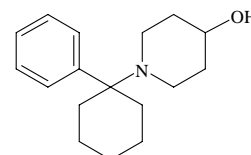
column: Ascentis C18, 15 cm x 4.6 mm I.D., 5 µm particles (581324-U)  
mobile phase: 70:30, 10 mM ammonium acetate (pH 4.5 with acetic acid):acetonitrile  
flow rate: 1 mL/min.  
temp.: 35 °C  
det.: ESI (+)  
injection: 10 µL  
sample: 1 µg/mL each in mobile phase

### Peak IDs

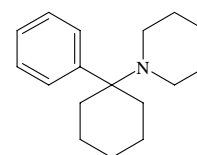
1. 4-hydroxyphencyclidine (m/z 260)
2. Phencyclidine (m/z 244)

### Structures

4-hydroxyphencyclidine - G002344



Phencyclidine - G002343



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