

## Healthcare opiates (propyl derivatives) by MSD on a ZB-Drug1

**Column:** Zebtron™ ZB-Drug-1, GC Cap. Column 10 m x 0.18 mm x 0.18 µm, Ea

**Phase:** Proprietary Drug Phase

**Dimensions:** 10 meters x 0.18 mm x 0.18 µm

**Order No:** 7CD-G023-08

**Oven Profile:** 185 °C to 320 °C @ 30 °C/min for 3 min

**Carrier Gas:** Constant Flow Helium, 0.7 mL/min

**Injection:** Split 10:1 1 µL @ 260°C

**Detection:** Mass Selective (MSD) (320°C)

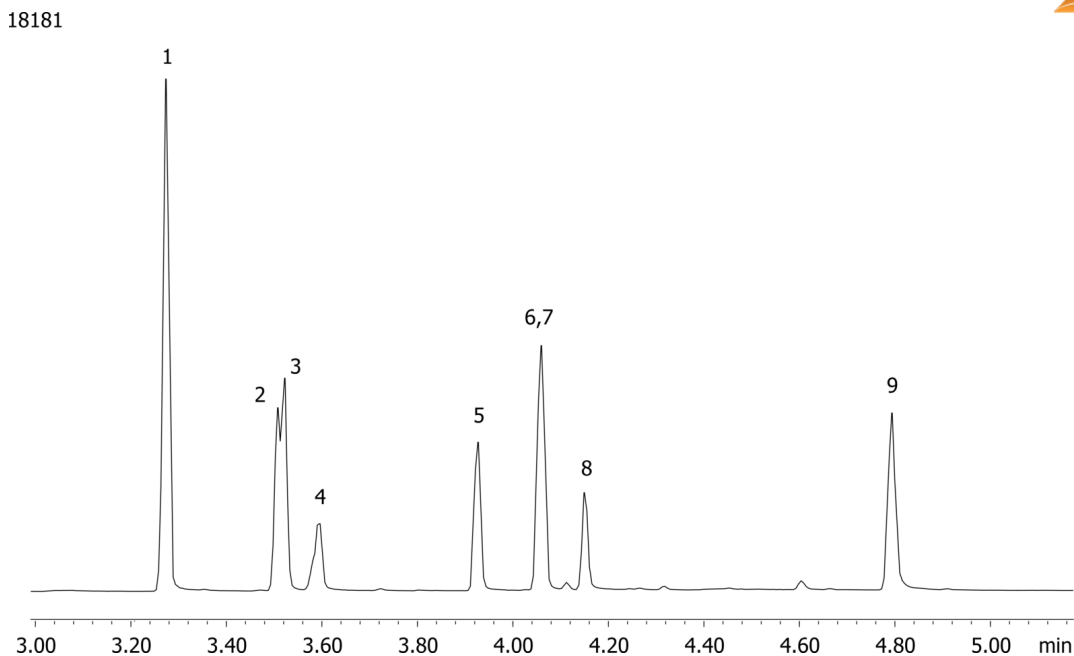
**Analyst Note:** Analytes are 12 µg/mL derivatized with propionic anhydride

Sim ions:

(Quant ion\*) Hydrocodone (\*299,242,214): D6-Codeine (\*361,288,235): Codeine (\*355,282,229): Oxycodone (\*371,314,288): Hydromorphone (\*285,341,228): Oxymorphone (\*357,300,413): D3-Morphine (\*344,271,400): Morphine (\*341,268,397): Norcodeine (\*223,397,101)



Products used in this application:



### ANALYTES:

- 1 Hydrocodone
- 2 Codeine-d6
- 3 Codeine
- 4 Oxycodone
- 5 Hydromorphone
- 6 Morphine-d3
- 7 Morphine
- 8 Oxymorphone
- 9 Norcodeine

