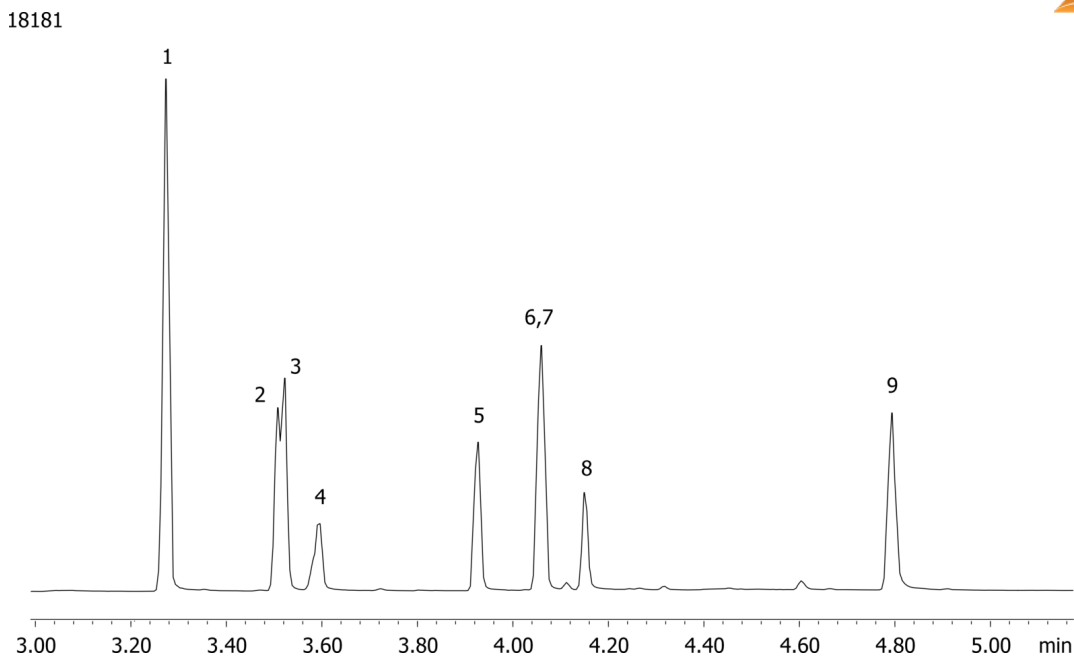


Healthcare opiates (propyl derivatives) by MSD on a ZB-Drug1**Column:** Zebron[™] ZB-Drug-1, GC Cap. Column 10 m x 0.18 mm x 0.18 µm, Ea**Phase:** Proprietary Drug Phase**Dimensions:** 10 meters x 0.18 mm x 0.18 µm**Order No:** 7CD-G023-08**Oven Profile:** 185 °C to 320 °C @ 30 °C/min for 3 min**Carrier 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

