

# HPLC Application

ID No.: 18850

## Pain panel extracted from human urine at cutoff - Kinetex C18 2.6µm 50x2.1mm LCMSMS

**Column:** Kinetex® 2.6 µm C18 100 Å, LC Column 50 x 2.1 mm, Ea

**Dimensions:** 50 x 2.1 mm ID

**Order No:** 00B-4462-AN

**Elution Type:** Gradient

**Eluent A:** 0.1% Formic acid in H<sub>2</sub>O

**Eluent B:** 0.1% Formic acid in ACN

| Gradient Profile: | Step No. | Time (min) | Pct A | Pct B |
|-------------------|----------|------------|-------|-------|
|                   | 1        | 0          | 95    | 5     |
|                   | 2        | 1.3        | 40    | 60    |
|                   | 3        | 1.31       | 5     | 95    |
|                   | 4        | 1.51       | 5     | 95    |
|                   | 5        | 1.52       | 95    | 5     |
|                   | 6        | 2.2        | 95    | 5     |

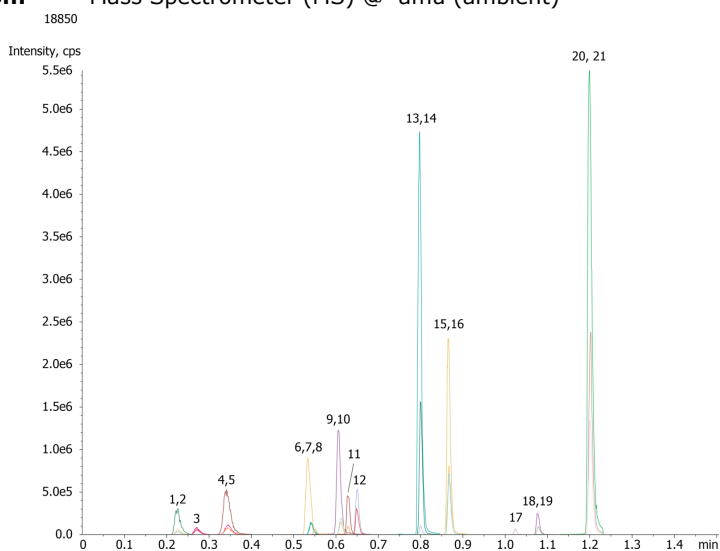
**Flow Rate:** 1.2 mL/min

**Col. Temp.:** ambient

**Detection:** Mass Spectrometer (MS) @ amu (ambient)



Products used in this application:



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### ANALYTES:

- 1** Morphine
- 2** Morphine-d3
- 3** Oxymorphone
- 4** Hydromorphone
- 5** Hydromorphone-d6
- 6** Codeine
- 7** Codeine-d6
- 8** Naloxone
- 9** Oxycodone
- 10** Oxycodone-d6
- 11** Naltrexone
- 12** Hydrocodone
- 13** cis-Tramadol
- 14** C13-D3-tramadol
- 15** Meperidine
- 16** Meperidine-d4
- 17** Fentanyl
- 18** Buprenorphine
- 19** Buprenorphine-d4
- 20** Methadone
- 21** Methadone-d3

