



**Column:** [Kinetex™ 2.6 µm C18 100 Å LC Column 50 x 2.1 mm](#)

**Part No:** [00B-4462-AN](#)

**Dimensions:** 50 x 2.1 mm ID

**Elution Type:** Gradient

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

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

**Gradient Profile:**

Step No.	Time (min)	Pct A	Pct B
1	0	95	5
2	0.24	95	5
3	1.25	70	30
4	2.5	70	30
5	2.51	5	95
6	2.8	5	95
7	2.81	95	5
8	4.6	95	5

**Flow Rate:** 450 µL/min

**Col. Temp:** 25 °C

**Detection:** Mass Spectrometer (MS) @ amu (22°C)

**Compounds:**

- 1- D3 Morphine (IS)
- 2- Morphine
- 3- Oxymorphone
- 4- Hydromorphone
- 5- Norcodeine
- 6- D6 Codeine
- 7- Oxycodone
- 8- Hydrocodone
- 9- Codeine