



**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	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:** 25 °C

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

**Compounds:**

- 1- Morphine; 2- D3-morphine; 3- Oxymorphone; 4- Hydromorphone; 5- D6-hydromorphone; 6- Codeine; 7- D6-codeine; 8- Naloxone; 9- Oxycodone; 10- D6-oxycodone; 11- Naltrexone; 12- Hydrocodone; 13- cis-tramadol; 14- C13-D3-tramadol; 15- Meperidine; 16- D4-meperidine; 17- Fentanyl; 18- Buprenorphine; 19- D4-buprenorphine; 20- Methadone; 21- D3-methadone