



Column: [Luna® 5 µm HILIC 200 Å LC Column 100 x 2 mm](#)

Part No: [00D-4450-B0](#)

Dimensions: 100 x 2 mm ID

Elution Type: Gradient

Elution A: 90/10 Acetonitrile/100mM Ammonium Formate pH 3.2

Elution B: 50/50 Acetonitrile/20mM Ammonium Formate pH 3.2

Gradient Profile:

Step No.	Time (min)	Pct A	Pct B
1	0	100	0
2	1	100	0
3	3	0	100
4	4.5	0	100
5	4.51	100	0
6	9.51	100	0

Flow Rate: 0.4 mL/min

Col. Temp: ambient

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

Compounds:

- 1- Morphine
- 2- Normorphine
- 3- Morphine-3-b-glucuronide