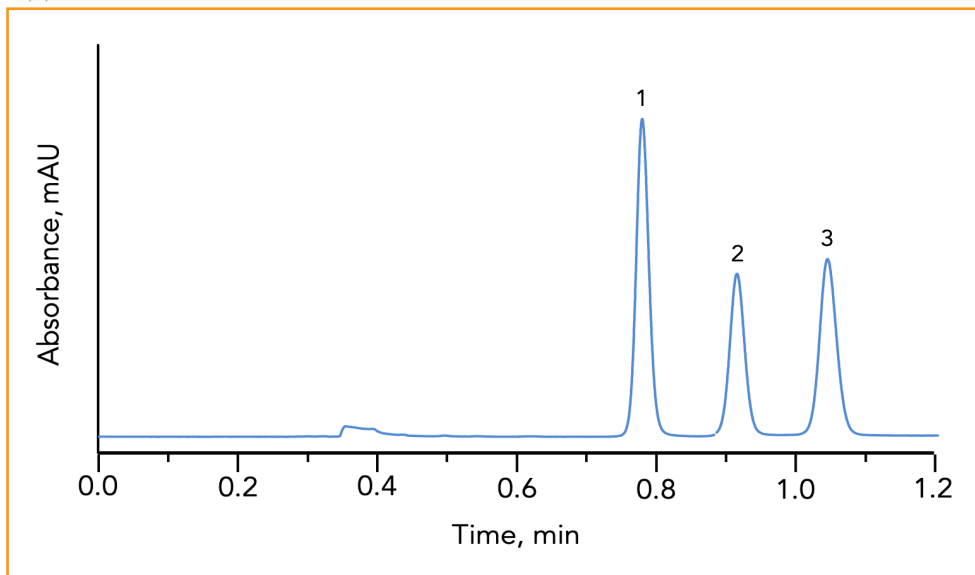




Separation of Fluoroquinolone Drugs on HALO® Phenyl-Hexyl Phase

Application Note 66-AB



PEAK IDENTITIES:

1. Norfloxacin
2. Ciprofloxacin
3. Lomefloxacin

The fluoroquinolone drugs are broad spectrum antibiotics that are used in both humans and animals. They can be quickly separated on HALO® Phenyl-Hexyl stationary phase in less than 1.2 minutes. The Fused-Core® particles allow the use of high flow rates without loss of resolution.

TEST CONDITIONS:

Column: HALO 90 Å Phenyl-Hexyl, 2.7 µm,
4.6 x 50 mm

Part Number: 92814-406

Mobile Phase: 82/18 - A/B

A: 0.025 M sodium phosphate, pH 2.5

B: Acetonitrile

Flow Rate: 1.5 mL/min

Pressure: 170 bar

Temperature: 30 °C

Detection: UV 254 nm, VWD

Injection Volume: 0.3 µL

Sample Solvent: Dimethylformamide/acetonitrile

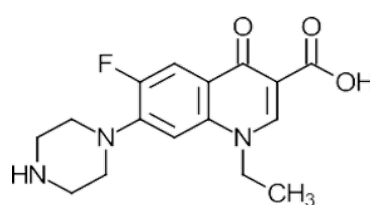
Response Time: 0.02 sec

Flow Cell: 2.5 µL semi-micro

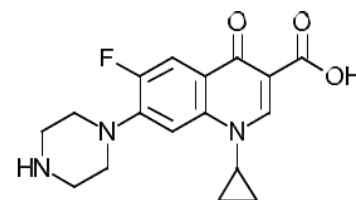
LC System: Shimadzu Prominence UFLC XR

Extra column volume: ~14 µL

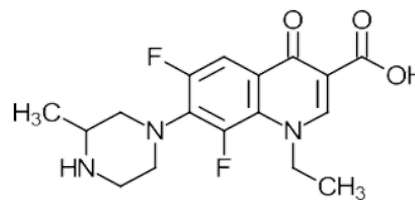
STRUCTURES:



Norfloxacin



Ciprofloxacin



Lomefloxacin

