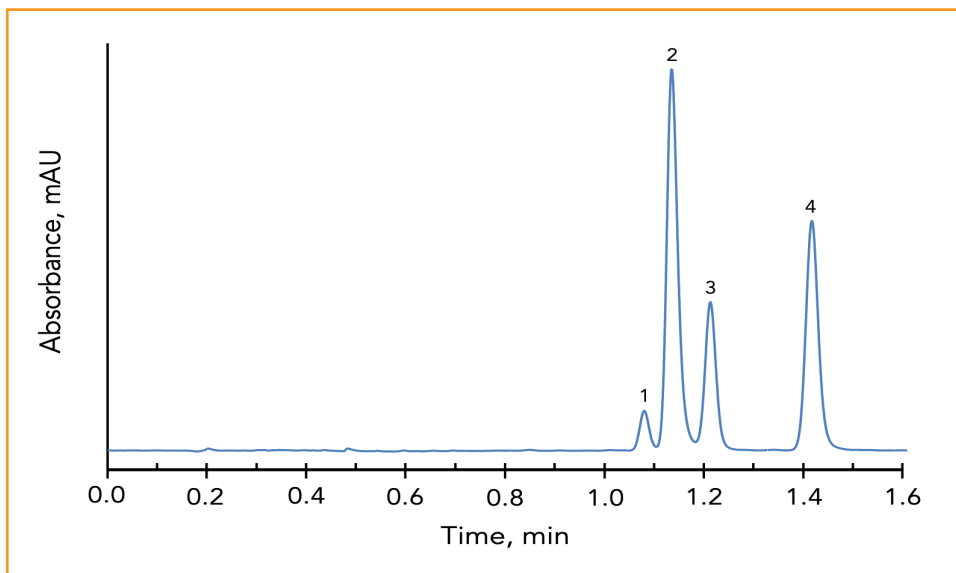




Separation of Antiulcer Drugs on HALO® Penta-HILIC

Application Note 65-B



PEAK IDENTITIES:

1. Cimetidine
2. Nizatidine
3. Famotidine
4. Ranitidine

The strongly basic antiulcer drugs can be rapidly separated on HALO® Penta-HILIC phase using a mobile phase that works well with a mass spectrometer detector.

TEST CONDITIONS:

Column: HALO 90 Å Penta-HILIC, 2.7 µm,
4.6 x 100 mm

Part Number: 92814-605

Mobile Phase: 10/90 - A/B

A: 0.04 M ammonium formate, pH 3.0

B: Acetonitrile

Flow Rate: 3.0 mL/min

Pressure: 210 bar

Temperature: 30 °C

Detection: UV 254 nm, VWD

Injection Volume: 2.0 µL

Sample Solvent: Mobile phase

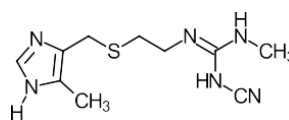
Response Time: 0.02 sec

Flow Cell: 2.5 µL semi-micro

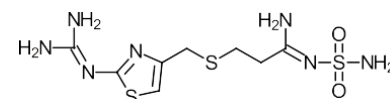
LC System: Shimadzu Prominence UFLC XR

Extra column volume: ~14 µL

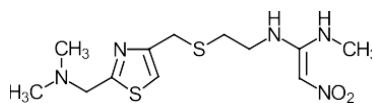
STRUCTURES:



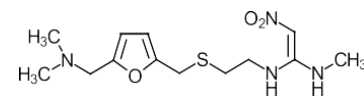
Cimetidine



Famotidine



Nizatidine



Ranitidine

