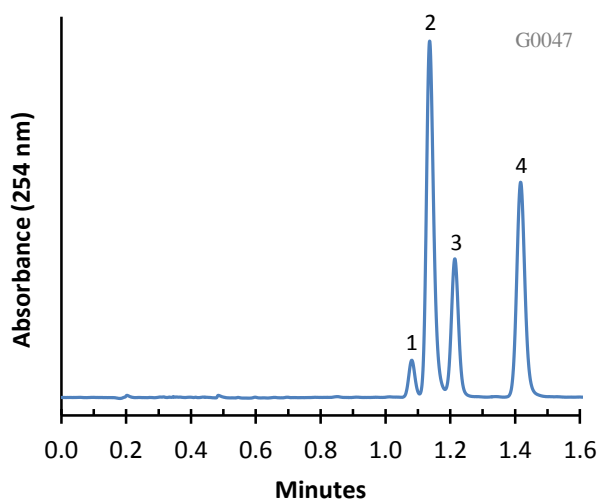


## Separation of Antiulcer Drugs on HALO Penta-HILIC



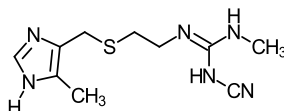
### PEAK IDENTITIES:

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

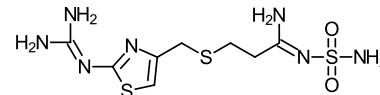
### TEST CONDITIONS:

Column: 4.6 x 100 mm, HALO Penta-HILIC  
Part Number: 92814-605  
Mobile Phase: 10/90: A/B  
A= 0.04 M Ammonium formate, pH=3.0 (adj.)  
B= Acetonitrile  
Flow Rate: 3.0 mL/min.  
Pressure: 210 Bar  
Temperature: 30°C  
Detection: UV 254 nm, VWD  
Injection Volume: 2 µL  
Sample Solvent: mobile phase  
Response Time: 0.02 sec.  
Flow Cell: 2.5 µL semi-micro  
LC System: Shimadzu Prominence UFLC XR  
ECV: ~14 µL

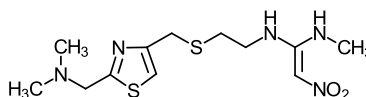
### STRUCTURES:



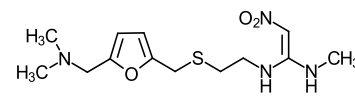
Cimetidine



Famotidine



Nizatidine



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.