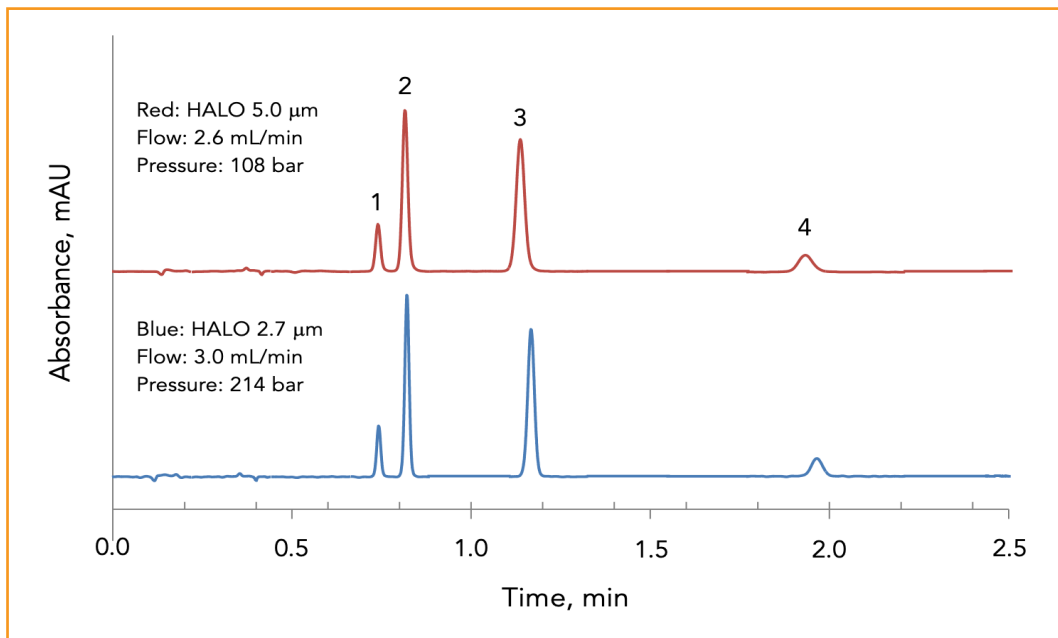




Comparable Selectivity Between HALO® HILIC, 5.0 μm and HALO® HILIC, 2.7 μm

Application Note 88-B



PEAK IDENTITIES:

1. Alprenolol
2. Pindolol
3. Acebutolol
4. Atenolol

These drugs are β -blockers used to treat high blood pressure. This separation illustrates easy method transfer between the 5.0 μm and 2.7 μm HALO® HILIC phases after small changes in flow rate.

TEST CONDITIONS:

Columns:

- 1) HALO 90 Å HILIC, 5.0 μm, 4.6 x 100 mm
Part Number: 95814-601
- 2) HALO 90 Å HILIC, 2.7 μm, 4.6 x 100 mm
Part Number: 92814-601

Mobile Phase: 11/89 - A/B

- A: 0.1 M ammonium formate, pH 3.0
B: Acetonitrile

Flow Rate: See chart

Pressure: See chart

Temperature: 30 °C

Detection: UV 254 nm, VWD

Injection Volume: 2.0 μL

Sample Solvent: Mobile phase

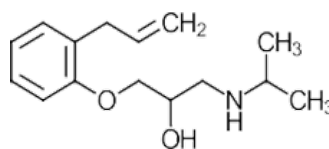
Response Time: 0.02 sec

Flow Cell: 2.5 μL semi-micro

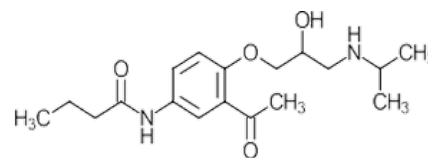
LC System: Shimadzu Prominence UFLC XR

Extra column volume: ~14 μL

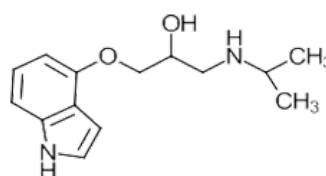
STRUCTURES:



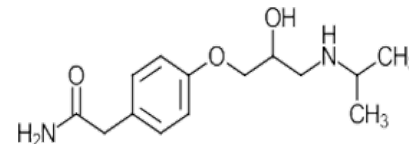
Alprenolol



Acebutolol



Pindolol



Atenolol

