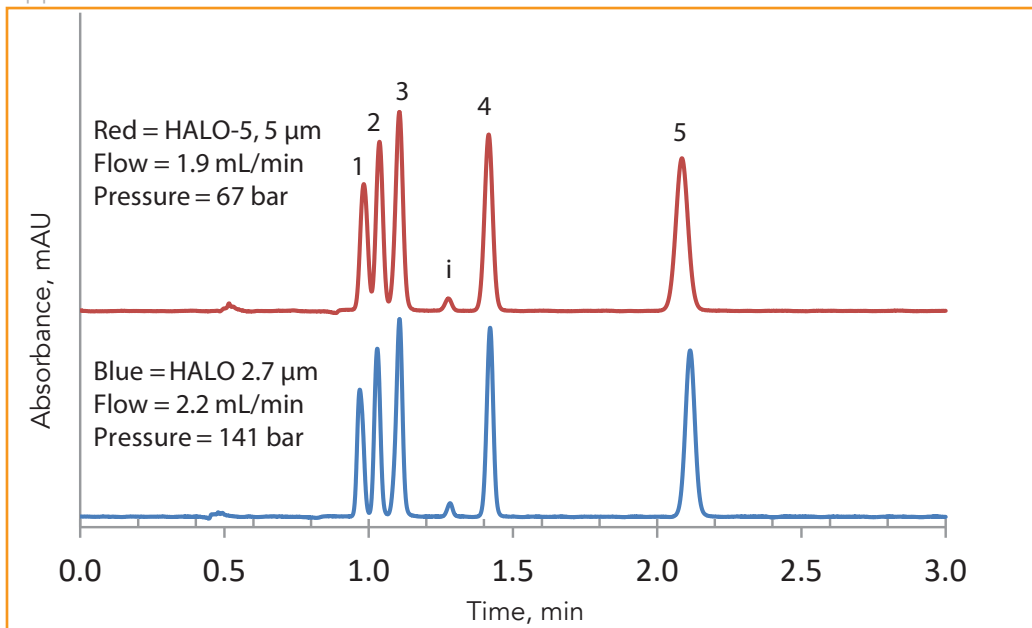




Comparable Selectivity Between HALO® Penta-HILIC 5 µm and 2.7 µm

Application Note 89-AD



PEAK IDENTITIES:

1. Trimipramine
 2. Amitriptyline
 3. Doxepin
 4. Nortriptyline
 5. Amoxapine
- i = impurity

Similar selectivity is achieved between the 5 µm and 2.7 µm HALO® Penta-HILIC particle sizes through a slight flow rate adjustment allowing easy method transfer.

TEST CONDITIONS:

Columns:

- 1) HALO 90 Å Penta-HILIC, 5 µm, 4.6 x 100 mm
Part Number: 95814-605
- 2) HALO 90 Å Penta-HILIC, 2.7 µm, 4.6 x 100 mm
Part Number: 92814-605

Mobile Phase: 5/95 - A/B

A: 0.1 M ammonium formate, pH 3.0 (adj.)

B: Acetonitrile

Flow Rate: See chart

Pressure: See chart

Temperature: 30 °C

Detection: UV 254 nm, VWD

Injection Volume: 2.0 µL

Sample Solvent: 10/90 water/acetonitrile

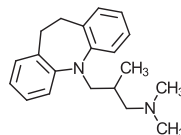
Response Time: 0.02 sec

Flow Cell: 2.5 µL semi-micro

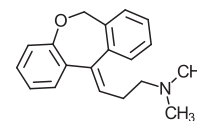
LC System: Shimadzu Prominence UFLC XR

Extra Column Volume: ~14 µL

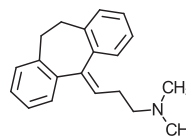
STRUCTURES:



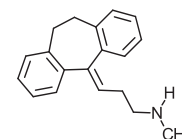
Trimipramine



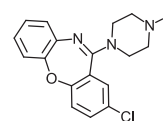
Doxepin



Amitriptyline



Nortriptyline



Amoxapine

