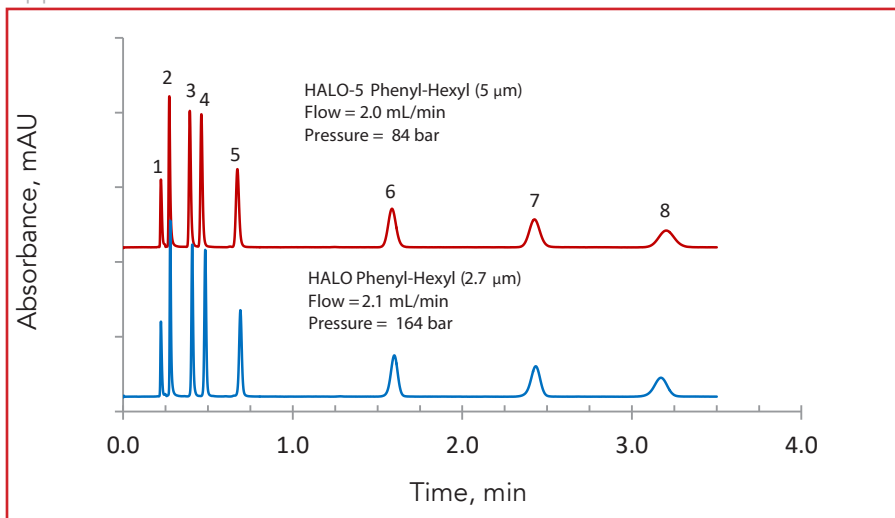




Comparable Selectivity Between HALO® 5 µm and HALO® 2.7 µm Phenyl-Hexyl Phases

Application Note 82-HA



PEAK IDENTITIES:

1. Uracil (t_0)
2. 6,7-Dihydroxycoumarin
3. 4-Hydroxycoumarin
4. Coumarin
5. 6-Chloro-4-hydroxycoumarin
6. Warfarin
7. Coumatetralyl
8. Coumachlor

These chromatograms show the similarity in selectivity between the 5 µm and the 2.7 µm HALO® Phenyl-Hexyl phases which allows the easy transfer of methods from one particle size to another.

TEST CONDITIONS:

Columns:

- 1) HALO 90 Å Phenyl-Hexyl, 5 µm, 4.6 x 50 mm
Part Number: 95814-406
- 2) HALO 90 Å Phenyl-Hexyl, 2.7 µm, 4.6 x 50 mm
Part Number: 92814-406

Mobile Phase: 55/45 - A/B

- A: 0.1% formic acid in water
- B: 50/50 methanol/acetonitrile

Flow Rate: See chart

Pressure: See chart

Temperature: 45 °C

Detection: UV 254 nm, VWD

Injection Volume: 2.0 µL

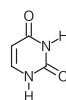
Sample Solvent: 30/70 water (0.1% formic acid)/ methanol

Response Time: 0.12 sec

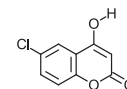
Flow Cell: 5.0 µL

LC System: Agilent 1100

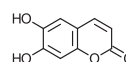
STRUCTURES:



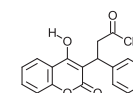
Uracil



6-Chloro-4-hydroxycoumarin



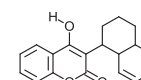
6,7-Dihydroxycoumarin



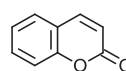
Warfarin



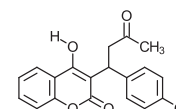
4-Hydroxycoumarin



Coumatetralyl



Coumarin



Coumachlor

