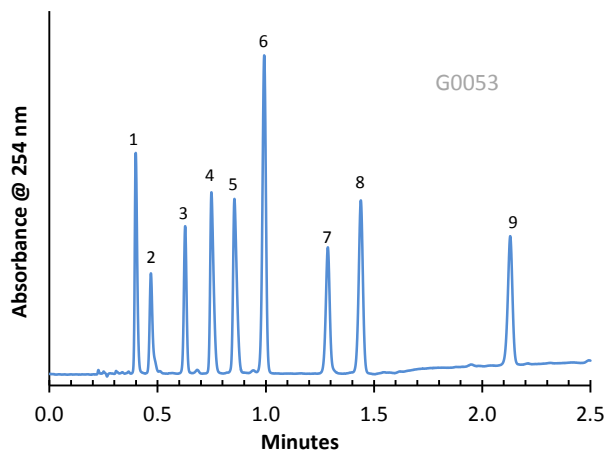


Separation of Cephalosporins on HALO Phenyl-Hexyl



PEAK IDENTITIES:

1. Cefadroxil
2. Ceftazidime
3. Cefaclor
4. Cephalexin
5. Cephadrine
6. Cefotaxime
7. Cefazolin
8. Cefoxitin
9. Cephalothin

TEST CONDITIONS:

Columns: HALO Phenyl-Hexyl, 4.6 x 50 mm

Part Numbers 92814-406

Mobile Phase: A= 0.1% Formic Acid

B= (50/50) Acetonitrile/Methanol

Gradient: 18% B to 45% B in 2.0 min.,
hold for 1 minute.

Flow Rate: 2.0 mL/min.

Pressure: 225 bar at start of gradient

Temperature: 40° C

Detection: UV 254 nm, VWD

Injection Volume: 1.0 µL

Sample Solvent: 70/30 Water/Methanol

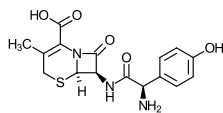
Response Time: 0.02 sec.

Flow Cell: 2.5 µL semi-micro

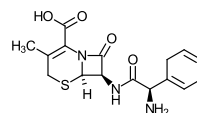
LC System: Shimadzu Prominence UFLC XR

ECV: about 14 µL

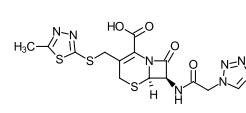
STRUCTURES:



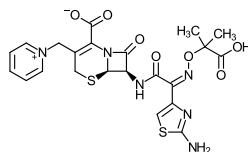
Cefadroxil



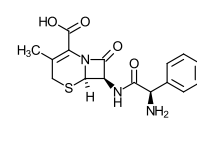
Cephalexin



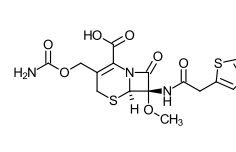
Cefazolin



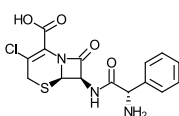
Ceftazidime



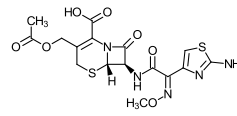
Cephadrine



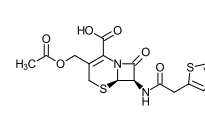
Cefoxitin



Cefaclor



Cefotaxime



Cephalothin

These cephalosporins can be rapidly separated by reversed-phase HPLC on a HALO Fused-Core Phenyl-Hexyl bonded phase column.