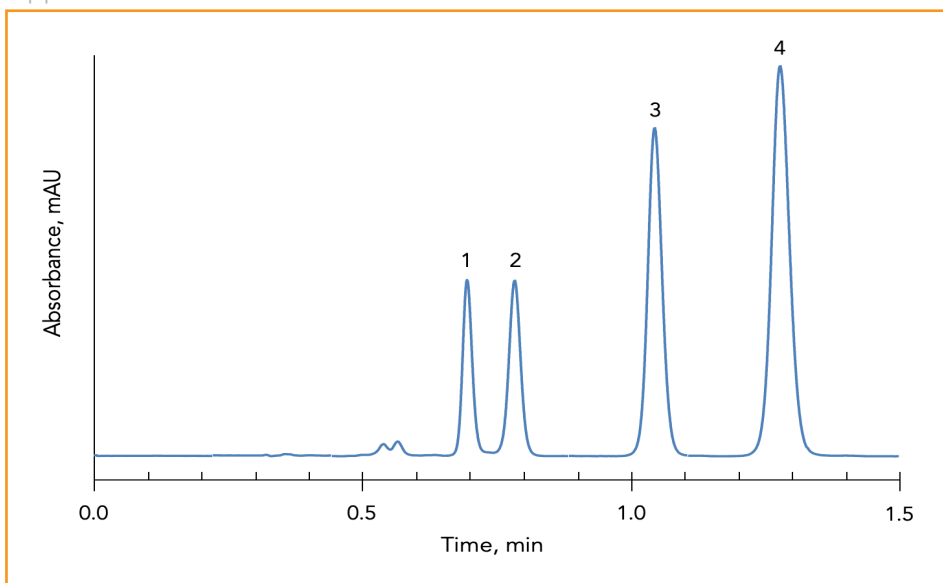




Separation of Penicillins on HALO® Phenyl-Hexyl

Application Note 72-AB



PEAK IDENTITIES:

1. Penicillin G
2. Piperacillin
3. Oxacillin
4. Cloxacillin

These four penicillin drugs can be rapidly separated on HALO® Fused-Core® Phenyl-Hexyl bonded phase columns.

TEST CONDITIONS:

Column: HALO 90 Å Phenyl-Hexyl, 2.7 µm,
4.6 x 50 mm

Part Number: 92814-406

Mobile Phase: 40/60 - A/B

A: 0.02 M phosphate buffer, pH 3.0

B: Methanol

Flow Rate: 1.5 mL/min

Pressure: 200 bar

Temperature: 40 °C

Detection: UV 230 nm, VWD

Injection Volume: 1.0 µL

Sample Solvent: 50/50 water/acetonitrile

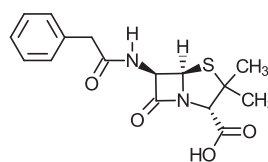
Response Time: 0.02 sec

Flow Cell: 2.5 µL semi-micro

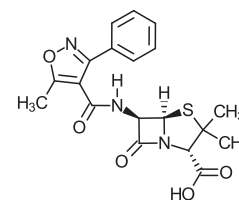
LC System: Shimadzu Prominence UFLC XR

Extra column volume: ~14 µL

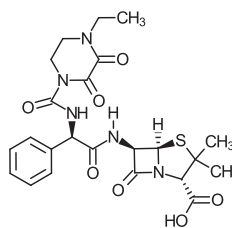
STRUCTURES:



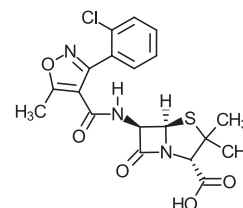
Penicillin G



Oxacillin



Piperacillin



Cloxacillin

