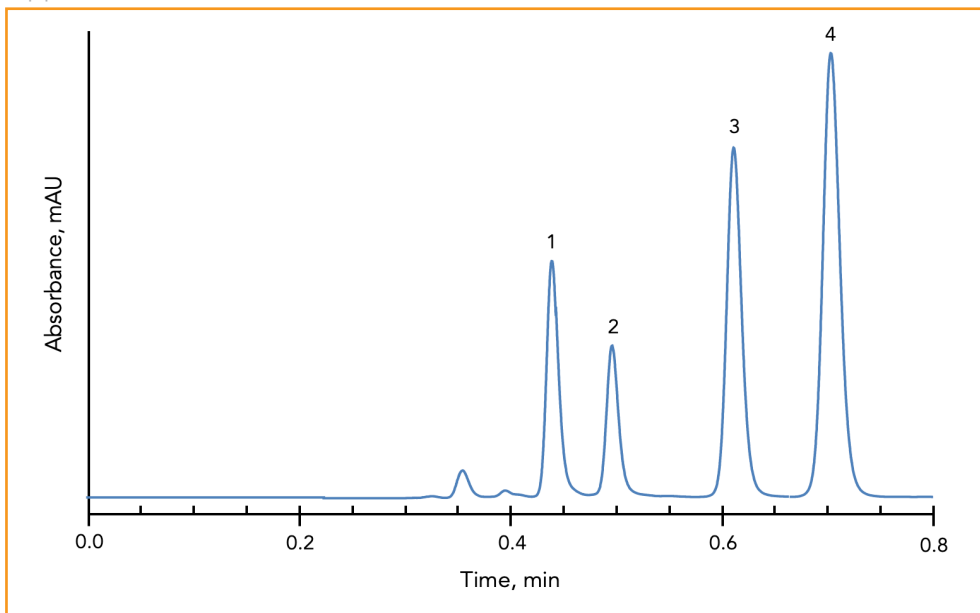




Separation of Penicillins on HALO® ES-CN

Application Note 71-AB



PEAK IDENTITIES:

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

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

TEST CONDITIONS:

Column: HALO 90 Å ES-CN, 2.7 μm,
4.6 x 50 mm

Part Number: 92814-404

Mobile Phase: 55/45 - A/B

A: 0.02 M Phosphate buffer, pH 3.0

B: Acetonitrile

Flow Rate: 1.5 mL/min

Pressure: 120 bar

Temperature: 40 °C

Detection: UV 230 nm, VWD

Injection Volume: 1.0 μL

Sample Solvent: 50/50 water/acetonitrile

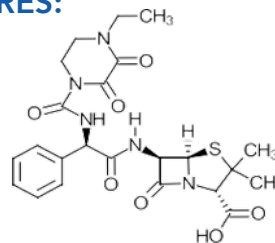
Response Time: 0.02 sec

Flow Cell: 2.5 μL semi-micro

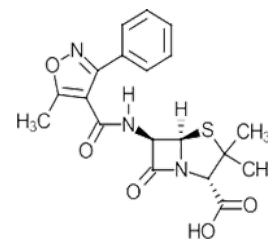
LC System: Shimadzu Prominence UFLC XR

Extra column volume: ~14 μL

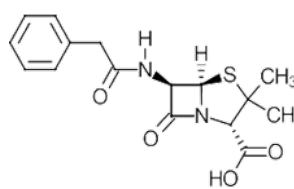
STRUCTURES:



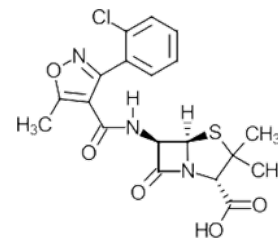
Piperacillin



Oxacillin



Penicillin G



Cloxacillin

