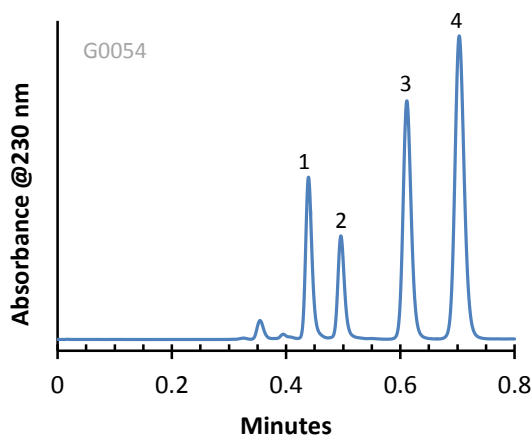


HPLC Application Note: 71-AB

Separation of Penicillins on HALO ES-CN



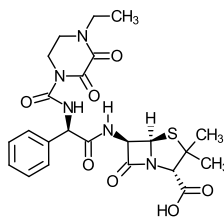
PEAK IDENTITIES:

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

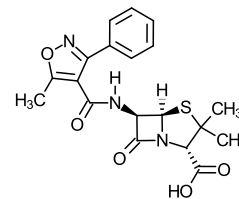
TEST CONDITIONS:

Column: 4.6 x 50 mm, HALO ES-CN
 Part Number: 92814-404
 Mobile Phase: 55/45: A/B
 A= 0.02 M Phosphate buffer, pH=3.0 (adj.)
 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
 ECV: about 14 µL

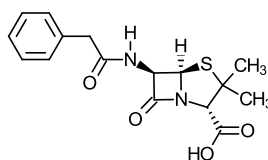
STRUCTURES:



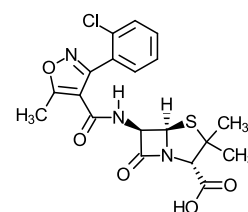
Piperacillin



Oxacillin



Penicillin G



Cloxacillin

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