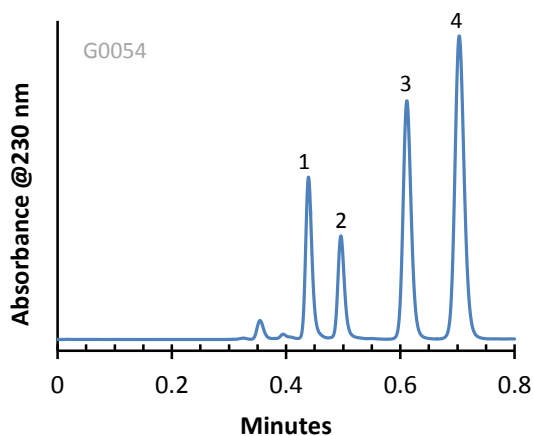


HPLC Application Note: 71-AB

Separation of Penicillins on HALO ES-CN



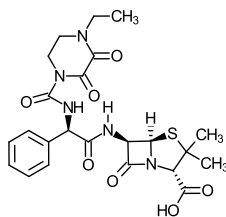
PEAK IDENTITIES:

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

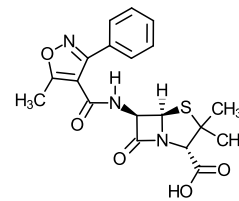
TEST CONDITIONS:

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

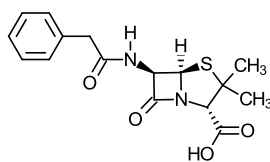
STRUCTURES:



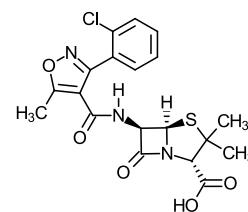
Piperacillin



Oxacillin



Penicillin G



Cloxacillin

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