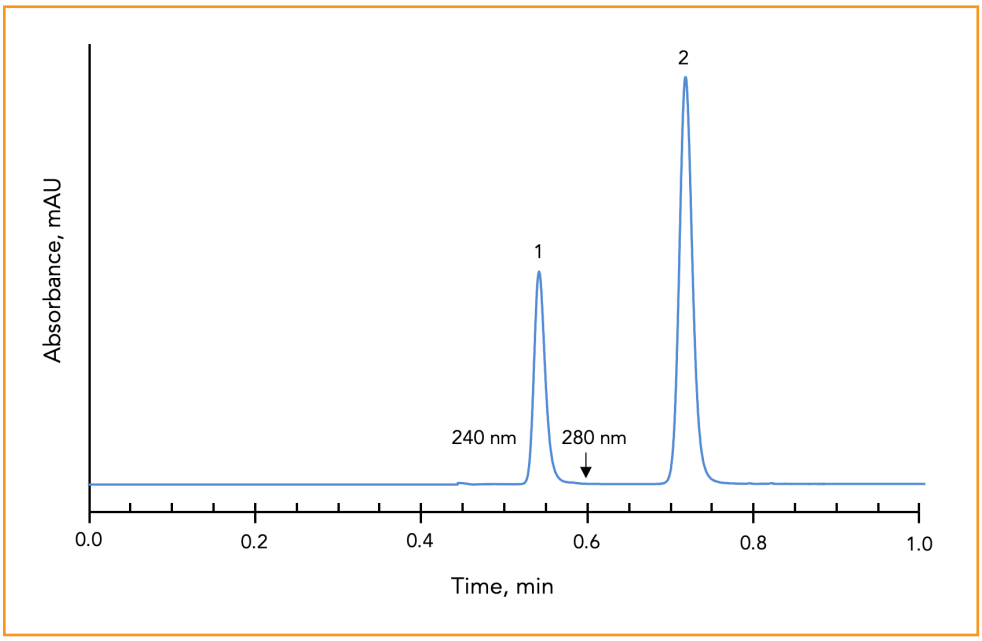
HALO®

PHARMACEUTICALS

Isocratic Separation of Amphenicols on HALO® RP-Amide Phase

Application Note 58-AM



PEAK IDENTITIES:

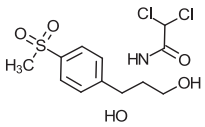
1. Thiamphenicol
2. Chloramphenicol

This separation shows a rapid HPLC method for the analysis of amphenicols using HALO® RP-Amide phase. To improve the sensitivity of detection, the first peak was monitored at 240 nm and the second at 280 nm.

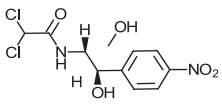
TEST CONDITIONS:

Column: HALO 90 Å RP-Amide, 2.7 µm, 4.6 x 50 mm
Part Number: 92814-407
Mobile Phase: 55/45 - A/B
A: 0.025 M Ammonium acetate buffer, pH 5.8
B: Acetonitrile
Flow Rate: 1.0 mL/min
Pressure: 92 bar
Temperature: 35 °C
Detection: UV 240/280 nm, VWD
Injection Volume: 0.5 µL
Sample Solvent: 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:



Thiamphenicol



Chloramphenicol