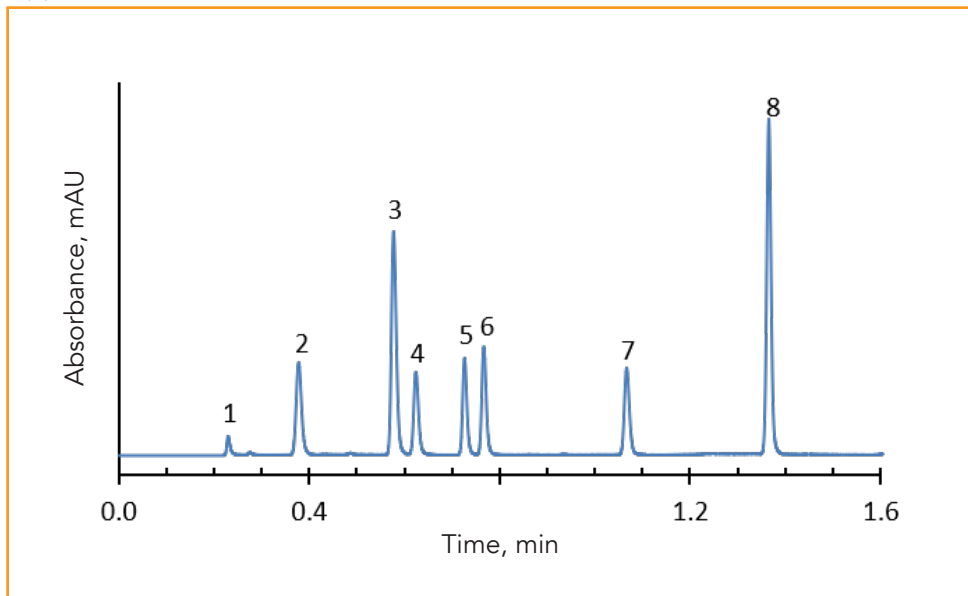




Separation of Antibiotic and Antifungal Drugs on HALO® RP-Amide

Application Note 80-AF



PEAK IDENTITIES:

1. Unknown
2. Ketoconazole
3. Naftifine
4. Clotrimazole
5. Econazole
6. Sulconazole
7. Clofazimine
8. Tolnaftate

The antimicrobial drug clofazimine and these other antifungal drugs can be rapidly analyzed using a HALO® RP-Amide column under gradient conditions with low back pressure.

TEST CONDITIONS:

Column: HALO 90 Å RP-Amide, 2.7 µm, 4.6 x 50 mm

Part Number: 92814-407

Mobile Phase:

A: 0.02 M phosphate buffer, pH 3.0

B: Acetonitrile

Gradient: Time (min)	%B
0.0	41
1.0	80
1.6	80

Flow Rate: 2.0 mL/min

Initial Pressure: 188 bar

Temperature: 35 °C

Detection: UV 230 nm, VWD

Injection Volume: 0.3 µL

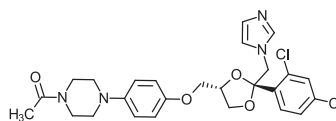
Sample Solvent: 25/75 water/acetonitrile

Response Time: 0.02 sec

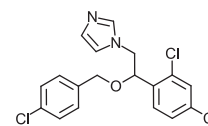
Flow Cell: 2.5 µL semi-micro

LC System: Shimadzu Prominence UFLC XR

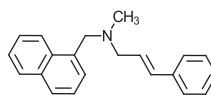
STRUCTURES:



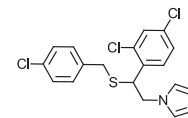
Ketoconazole



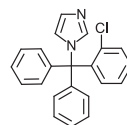
Econazole



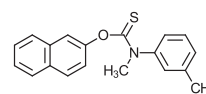
Naftifine



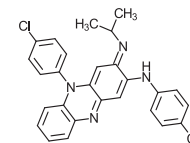
Sulconazole



Clotrimazole



Tolnaftate



Clofazimine

