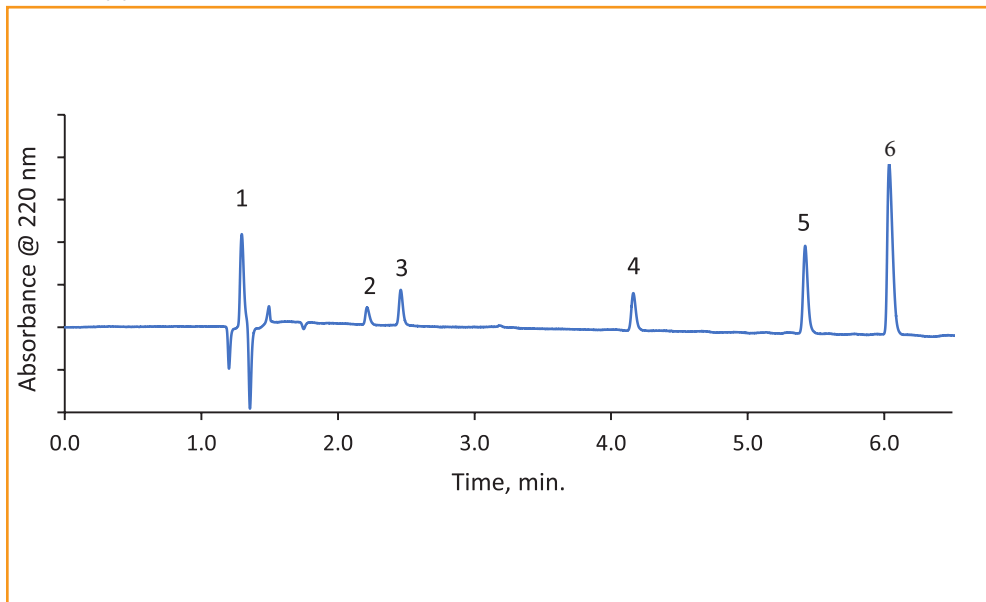




Amine Medications Separated Using HALO® C18, 5 µm

Application Note: 201-B



PEAK IDENTITIES:

1. Maleic Acid
2. Pseudoephedrine
3. Scopolamine
4. Doxylamine
5. Chlorpheniramine
6. Diphenhydramine

A mixture of amines including antihistamines, decongestants, and other medications is separated on a HALO® C18, 5 µm column. The column shows excellent peak shapes for basic compounds using an ammonium formate buffer at low pH.

TEST CONDITIONS:

Column: HALO 90 Å C18, 5 µm, 4.6 x 150 mm

Part Number: 95814-702

Mobile Phase A: 50mM Ammonium Formate/ 0.1% Formic Acid

Mobile Phase B: 50/50 MeOH:Acetonitrile/ 0.1% Formic Acid

Gradient: Time (min.) %B
 0.0 20
 6.5 60

Flow Rate: 1.0 mL/min

Initial Back Pressure: 190 bar

Temperature: 30 °C

Detection: 220 nm, PDA

Injection Volume: 3 µL

Sample Solvent: 80/20 Mobile Phase A/B

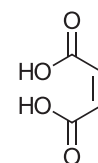
Data Rate: 40 Hz

Response Time: 0.025 sec.

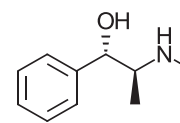
Flow Cell: 1 µL

LC System: Shimadzu Nexera X2

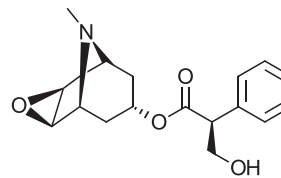
STRUCTURES:



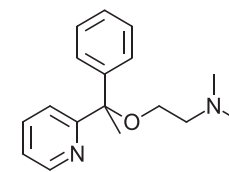
Maleic Acid



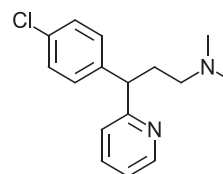
Pseudoephedrine



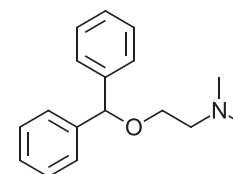
Scopolamine



Doxylamine



Chlorpheniramine



Diphenhydramine

