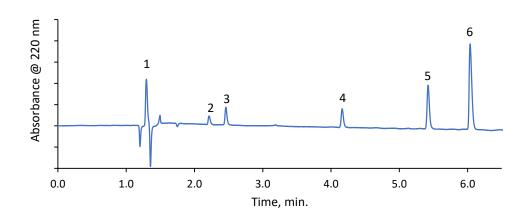


HPLC Analysis of Amine Medications on Ascentis® Express C18, 5 µm



Peak Number	Compound
1	Maleic Acid
2	Pseudoephedrine
3	Scopolamine
4	Doxylamine
5	Chlorpheniramine
6	Diphenhydramine

Conditions:

column: Ascentis® Express C18, 15 cm x 4.6 mm I.D., 5 µm

mobile phase: [A] 50 mM Ammonium formate (0.1% (v/v) Formic acid); [B] 50:50 Methanol:Acetonitrile

(Both 0.1% (v/v) Formic acid)

gradient: 20% B to 60% B in 6.5 min

flow rate: 1 mL/min column temp.: 30 °C

detector: UV, 220 nm

injection: 3 µL

sample: Amine Compounds, varied concentration, 80:20 Mobile phase A:Mobile phase B

Description:

There are a variety of amine medications, from antihistamines to decongestants, that can be efficiently separated using HPLC. The Ascentis® Express C18 is ideal for these separations, providing good resolution and fast run times. The use of ammonium formate buffer as a mobile phase helps maintain excellent peak shapes for these basic compounds.





Supelco



Materials:

Product Part Number	Description
50537-U	Ascentis® Express C18, 15 cm x 4.6 mm I.D., 5 μm
70221	Ammonium formate, LC/MS grade
5.33002	Formic acid, LC/MS grade
34860	Methanol
34851	Acetonitrile
M0375	Maleic Acid
287636	(1S,2S)-(+)-Pseudoephedrine
PHR1470	Scopolamine hydrobromide
PHR1420	Doxylamine succinate
C3025	(±)-Chlorpheniramine maleate salt
D3630	Diphenhydramine hydrochloride