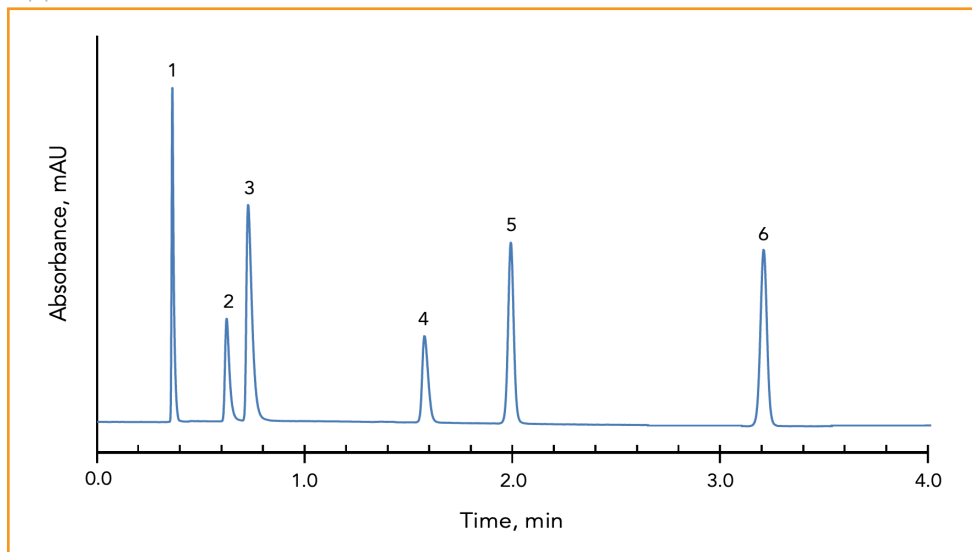




## Antihistamines on HALO® C18, 5 µm

Application Note 114-AH



### PEAK IDENTITIES:

1. Maleic acid
2. Pyrilamine
3. Chlorpheniramine
4. Cetirizine
5. Fexofenadine
6. Loratadine

These six antihistamines can be rapidly separated on a 5 µm HALO® Fused-Core® C18 column in under 4 minutes.

### TEST CONDITIONS:

**Column:** HALO 90 Å C18, 5 µm,  
3.0 x 100 mm

**Part Number:** 95813-602

**Mobile Phase:** 50/50 - A/B (start)

A: 0.02 M phosphate buffer, pH 2.6

B: Methanol

Gradient: Time (min)	% B
0.0	50
0.5	50
2.5	75
4.0	75

**Flow Rate:** 1.0 mL/min

**Pressure:** 191 bar

**Temperature:** 40 °C

**Detection:** UV 230 nm, VWD

**Injection Volume:** 1.0 µL

**Sample Solvent:** 80% methanol in water

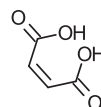
**Response Time:** 0.02 sec

**Flow Cell:** 2.5 µL semi-micro

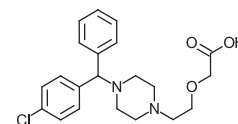
**LC System:** Shimadzu Prominence UFLC XR

**Extra column volume:** ~14 µL

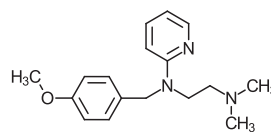
### STRUCTURES:



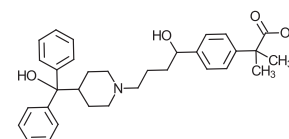
Maleic acid



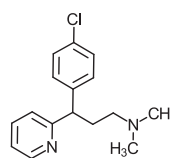
Cetirizine



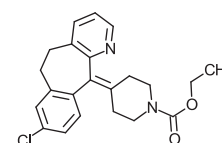
Pyrilamine



Fexofenadine



Chlorpheniramine



Loratadine

