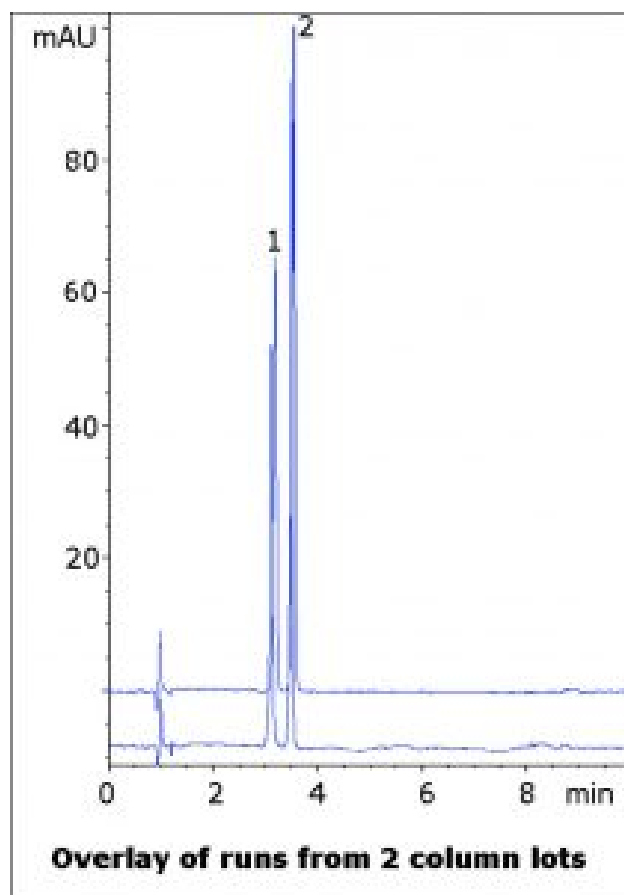


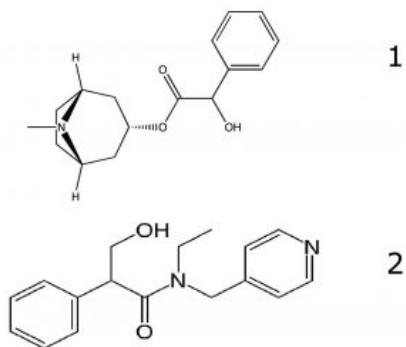
## Tropicamide and Homatropine Analyzed by HPLC – AppNote

### Separation of Anticholinergic Mydriatic Agents

In this Method, Tropicamide and Homatropine are separated with a simple Gradient. Homatropine is significantly hydrophobic yet still retains well.

Furthermore, the Separation between these two solutes is good, illustrating the Selectivity capabilities of this Method. Data is shown for two lots of Columns in order to demonstrate the robustness and precision of this Method.





### Peaks:

1. Homatropine
2. Tropicamide

### Method Conditions

**Column:** Cogent Diamond Hydride™, 4μm, 100Å

**Catalog No.:** 70000-7.5P

**Dimensions:** 4.6 x 75mm

#### Mobile Phase:

A: DI Water / 0.1% Trifluoroacetic Acid (v/v)

B: Acetonitrile / 0.1% Trifluoroacetic Acid (v/v)

#### Gradient:



| Time (minutes) | %B |
|----------------|----|
| 0              | 95 |
| 1              | 95 |
| 6              | 50 |
| 7              | 95 |

**Injection vol.:** 2 $\mu$ L

**Flow rate:** 1.0mL / minute

**Detection:** UV @ 220nm

**Sample Preparation:** 0.1mg / mL Homatropine and 0.01mg / mL Tropicamide reference standards in diluent of 50:50 Solvent A / Solvent B. Peak identities were confirmed with individual standards.

**t<sub>0</sub>:** 0.9 minutes

**Note:** Homatropine and Tropicamide are mydriatic (pupil-dilating) agents used in ophthalmoscopic examinations. Trade names include Homatropaire® for Homatropine and Mydral® for Tropicamide.



## Attachment

**No 219 Tropicamide and Homatropine Analyzed by HPLC pdf** 0.4 Mb [Download File](#)