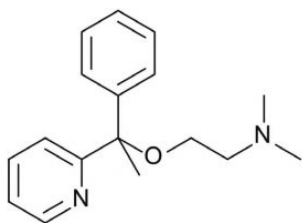
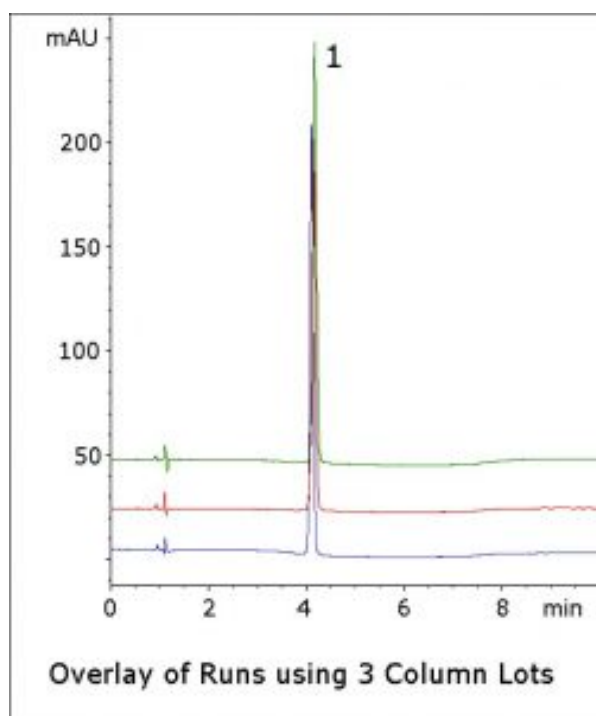


## Doxylamine Succinate Tablet Analyzed by HPLC – AppNote

### Shorter Run Time than USP Method

The USP Assay Method for Doxylamine Succinate tablets uses Triethylamine and Sodium Lauryl Sulfate in the Mobile Phase. These reagents are slow to fully load onto the Column, resulting in long run times and poor Robustness. This Method uses Trifluoroacetic Acid to get an excellent Peak Shape. An overlay of injections from three different lots is shown in order to illustrate the Reproducibility of this Method.



#### Peak:

Doxylamine

### 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 (TFA)

B: Acetonitrile / 0.1% Trifluoroacetic Acid (TFA)

**Gradient:**

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

**Injection vol.:** 2µL

**Flow rate:** 1.0mL / minute

**Detection:** UV @ 254nm

**Sample Preparation:** 25mg strength Doxylamine Succinate tablet was ground and added to a 50mL volumetric flask containing a portion of 50:50 Solvent A / Solvent B diluent. Solution was then sonicated for 10 minutes and diluted to mark. A portion was filtered with a 0.45µm Nylon Syringe Filter (MicroSolv Tech Corp.).

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

**Note:** Doxylamine is an antihistamine with sedative properties. It is used to treat insomnia and as a sleep aid for this reason. It is found in many common Over-The-Counter drug formulations.

**Attachment**

**No 198 Doxylamine Succinate Tablet Analyzed by HPLC pdf** 0.5 Mb [Download File](#)

Printed from the Chrom Resource Center

**MicroSolv Technology Corporation**

9158 Industrial Blvd. NE, Leland, NC 28451

tel. (732) 380-8900, fax (910) 769-9435

Email: [customers@mtc-usa.com](mailto:customers@mtc-usa.com)

Website: [www.mtc-usa.com](http://www.mtc-usa.com)

Date: 05-05-2024