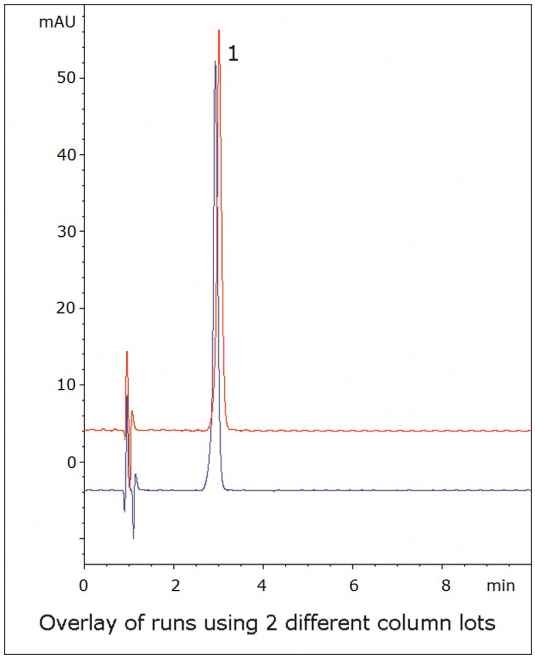
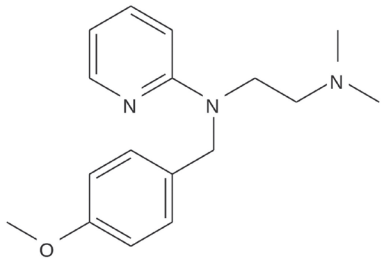
Pyrilamine Maleate

Method for organic amine



Overlay of runs using 2 different column lots



Pyrilamine

Note: Pyrilamine (also known as mepyramine) is a first generation antihistamine. It is found in many common over-the-counter oral and topical formulations with a variety of uses.

Method Conditions

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

Catalog No.: 70000-7.5P

Dimensions: 4.6 x 75 mm

Mobile Phase: 8% DI H_2O / 92% acetonitrile / 0.1% (v/v) trifluoroacetic acid

Injection vol.: 2µL

Flow rate: 1.0 mL/min

Detection: UV 244 nm

Sample: 100 mg/L pyrilamine maleate in diluent of 50/50/0.1 (v/v) DI H_2O / acetonitrile/ trifluoroacetic acid.

Peak: 1. Pyrilamine

t_0: 0.9 min

Discussion

Pyrilamine is a challenging compound to analyze by HPLC because it contains several amine groups that can contribute to peak tailing. In this method, an excellent peak shape is obtained for pyrilamine using the Cogent Diamond Hydride column and a simple isocratic mobile phase. Runs from two column lots are shown in the figure, which illustrates column reproducibility.

The method is rapid, robust, and suitable for routine assay of pyrilamine formulations. The data shown here used a USP reference standard of pyrilamine maleate but the conditions can be applied to a variety of formulation extracts.

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