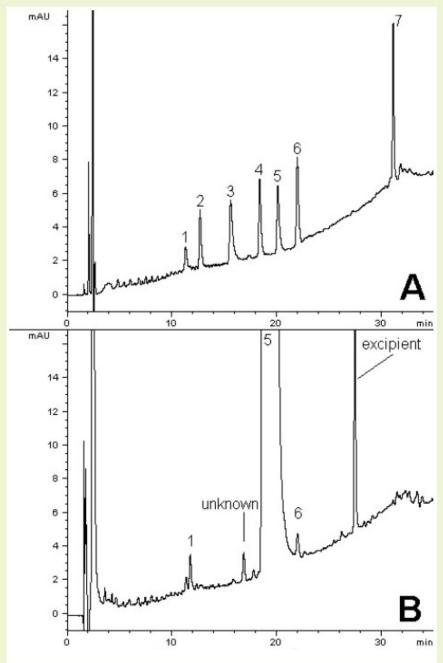
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Separation demonstrated in real commercial formulation extracts

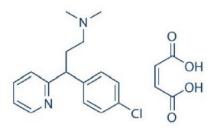
Use of the Cogent Bidentate C8[™] Column allows for high resolution baseline separation of six specified impurities of Chlorpheniramine Maleate (Fig. A). Fig. B shows how the method can be applied to a real-world formulation, spiked with the N-oxide impurity to demonstrate resolution from the API peak.

Currently, there is no public official standard for Chlorpheniramine impurities analysis, hence this method supports quality testing for safety of products.



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Chlorpheniramine Maleate

PEAKS:

- 1. Pheniramine
- 2. Chlorpheniramine related compound A
- 3. Chlorpheniramine related compound B
- 4. Chlorpheniramine related compound C

5. Chlorpheniramine

6. Chlorpheniramine N-oxide

7. Chlorpheniramine related compound D

Method Conditions

Column: Cogent Bidentate C8[™], 4µm, 100Å

Catalog No.: 40008-15P

Dimensions: 4.6 x 150 mm

Solvents:

A: 95% DI Water/ 5% Acetonitrile/ 0.05% TFA (v/v)

B: Acetonitrile/ 0.05% TFA (v/v)

Gradient:

Time (Minutes)	%B
0	0
20	15
30	30
34	30
35	0
40	0

Injection vol.: 10µLPrinted from the Chrom Resource CenterFlow rate: 1.0 mL/minuteCopyright 2024, All Rights ApplyDetection: UV 225 nmMicroSolv Technology CorporationSample:9158 Industrial Blvd. NE, Leland, NC 28451Fig. A: 4.8 µg/mL each of USP Chlorpheniramine Maleate reference standard (BS): Physic Phy

Fig. A: 4.8 μg/mL each of USP Chlorpheniramine Maleate reference standarde (RS)3 Physics 9900, fax (910) 769-9435Chlorpheniramine N-oxide, related compound (RC) A, B, C, and D.Email: customers@mtc-usa.com

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Fig. B: 4 mg strength Chlorpheniramine Maleate tablet extract (2.4 mg/mL) spiked at 0.1% level with Chlorpheniramine N-oxide Dihydrochloride RS solution.

Notes: Chlorpheniramine Maleate is an active pharmaceutical ingredient that is one of numerous over-the-counter antihistamine medicines used to treat allergic reactions such as hay fever and urticaria (hives). As with other first generation antihistamines, drowsiness can be a common side effect of the medication. This is due to their greater ability to cross the blood-brain barrier compared to second generation antihistamines.



Attachment

No 368 Chlorpheniramine Maleate Organic Impurities.pdf 0.2 Mb Download File

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