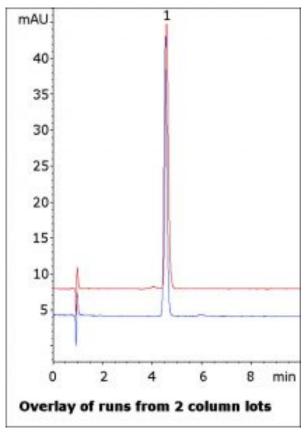


Oral OTC anesthetic analyzed by HPLC - AppNote

Isocratic HPLC method for phenol in oral OTC products

This method shows how an assay of Phenol can be readily performed with a simple isocratic Mobile Phase. Phenol is the active ingredient in this common Over-The-Counter oral spray solution, which is intended for treatment of sore throat.

A number of inactive ingredients are present in the OTC solution as well but do not interfere with the API peak. Runs from two column lots are shown in the figure to demonstrate the stationary phase consistency. The Method can also be used in LCMS analyses as the Mobile Phase is MS-compatible.





Peak: Phenol

Method Conditions

Column: Cogent Bidentate C18[™], 4μm, 100Å

Catalog No.: 40018-75P

Printed from the Chrom Resource Center Copyright 2024, All Rights Apply **MicroSolv Technology Corporation**

9158 Industrial Blvd. NE, Leland, NC 28451 tel. (732) 380-8900, fax (910) 769-9435

Email: customers@mtc-usa.com

Website: www.mtc-usa.com



Dimensions: 4.6 x 75mm

Mobile Phase: 80% DI Water / 20% Acetonitrile / 0.1% Formic Acid (v/v)

Injection vol.: 2µL

Flow rate: 1.0mL / minute Detection: UV @ 270nm

Sample Preparation: Chloraseptic® Solution containing 1.4% Phenol was filtered with a 0.45µm Nylon Syringe Filter (MicroSolv Tech Corp.). Solution was then diluted 1:100 with Mobile Phase diluent. Phenol peak identity was confirmed with a reference standard.

to: 0.9 minutes

Note: Phenol is used in this solution as an oral anesthetic/analgesic. However, it also has applications as a starting material in many types of organic syntheses such as in plastics, pharmaceuticals, sunscreens, and cosmetics.



Attachment

Oral OTC Anesthetic Analyzed by HPLC pdf Download File

Printed from the Chrom Resource Center

Copyright 2024, All Rights Apply

 ${\bf MicroSolv~Technology~Corporation}$

9158 Industrial Blvd. NE, Leland, NC 28451 tel. (732) 380-8900, fax (910) 769-9435

Email: customers@mtc-usa.com

Website: www.mtc-usa.com