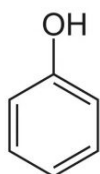
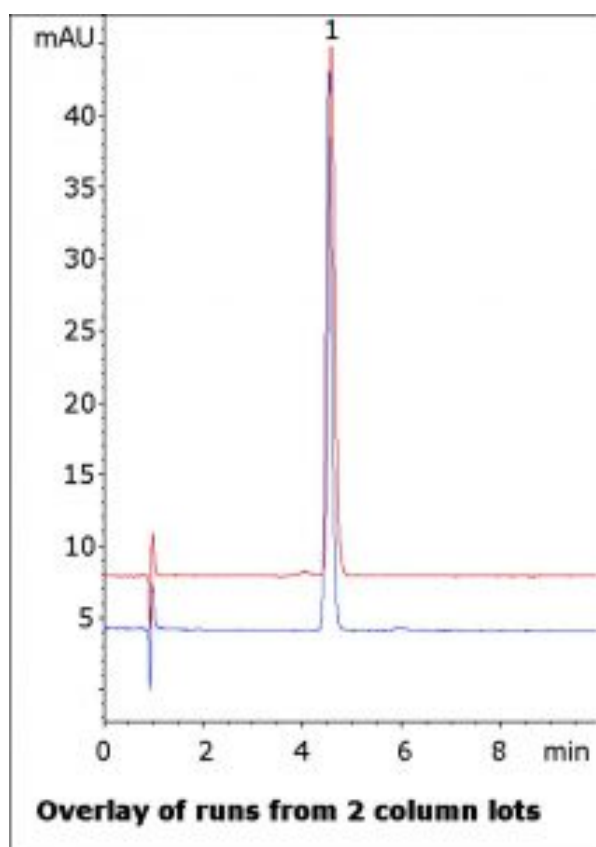


Oral OTC anesthetic analyzed by HPLC - AppNote

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

Dimensions: 4.6 x 75mm

MICROSOLV

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.

t₀: 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](#)

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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

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