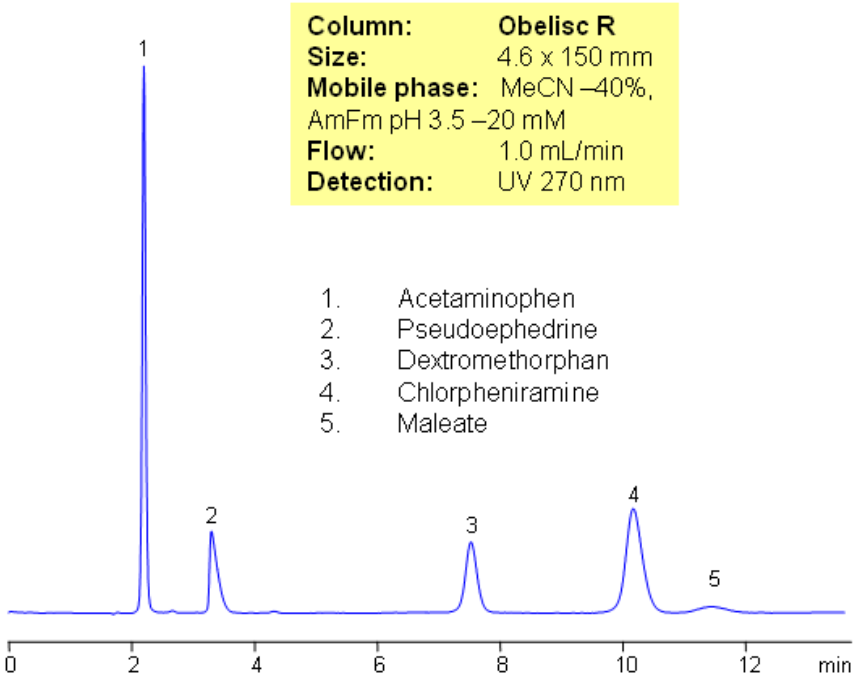
HPLC Separation of Drugs in Tylenol Cold and Cough Remedies



Components of Tylenol Cold and Cough Remedy are separated on Obelisc R mixed-mode column. Method can be used to determine compounds in various cough and cold compositions. Neutral (acetaminophen), basic (chlorpheniramine, dextromethorphan and pseudoephedrine) and acidic (maleic acid/Maleate) components are analyzed with perfect peak shape and retention control. Method can be used in production, QC/QA and biological studies for quantitation of various components in pharmaceutical formulations (Advil, Tylenol, Dimetapp, Robitussin, NyQuil, etc)

SIELC has developed the Obelisc™ columns, which are mixed-mode and utilize Liquid Separation Cell technology (LiSC™). These cost-effective columns are the first of their kind to be commercially available and can replace multiple HPLC columns, including reversed-phase (RP), AQ-type reversed-phase, polar-embedded group RP columns, normal-phase, cation-exchange, anion-exchange, ion-exclusion, and HILIC (Hydrophilic Interaction Liquid Chromatography) columns. By controlling just three orthogonal method parameters - buffer concentration, buffer pH, and organic modifier concentration - users can adjust the column properties with pinpoint precision to separate complex mixtures.

Method Parameters

Column	Obelisc R, 4.6×150 mm, 5 µm, 100 Å
Mobile Phase	MeCN
Buffer	AmFm
Flow Rate	1.0 mL/min
Detection	UV, 270 nm

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