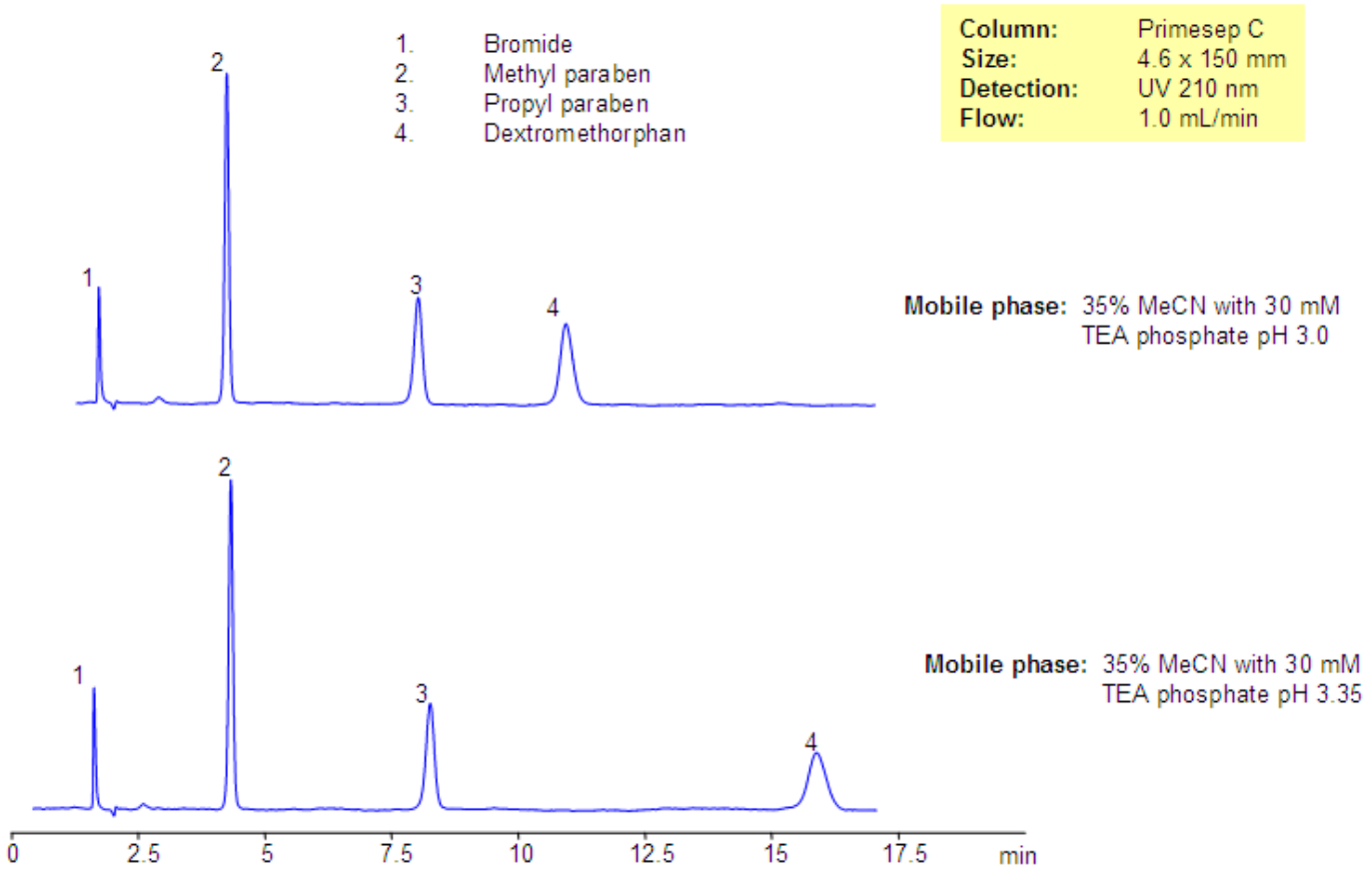
Analysis of Dextromethorphan-Based Drug composition. Effect on buffer pH

https://sielc.com/Application-Analysis-of-Dextromethorphan-Based-Drug-Composition-Effect-on-Buffer-pH

Chromatogram



Description

Dextromethorphan is one of the common cough suppressants used in many drug composition. It is in tablets and syrups as an antitussive drug. Composition often has preservatives like parabens. Dextromethorphan is a hydrophobic, basic drug which is used as a bromide salt in drug compositions. Dextromethorphan and two parabens (methyl paraben and propyl paraben) were separated on Primesep C reversed-phase cation-exchange column. Several impurities were observed and are well separated from the main components of the drug composition. Method can be used for various formulations in QC and production environment.

Method Parameters

Mobile Phase	MeCN/H2O – 35/65%
Buffer	TEAPh
Flow Rate	1.0 ml/min
Detection	UV, 210 nm
Class of Compounds	Drug, Preservatives, Base, Hydrophobic, Ionizable
Analyzing Compounds	Dextromethorphan, Bromide, Methyl Paraben, Propyl Paraben

HPLC Column Used

Primesep C, 4.6×150 mm, 5 µm, 100A

Order this column at hplc-shop.de →