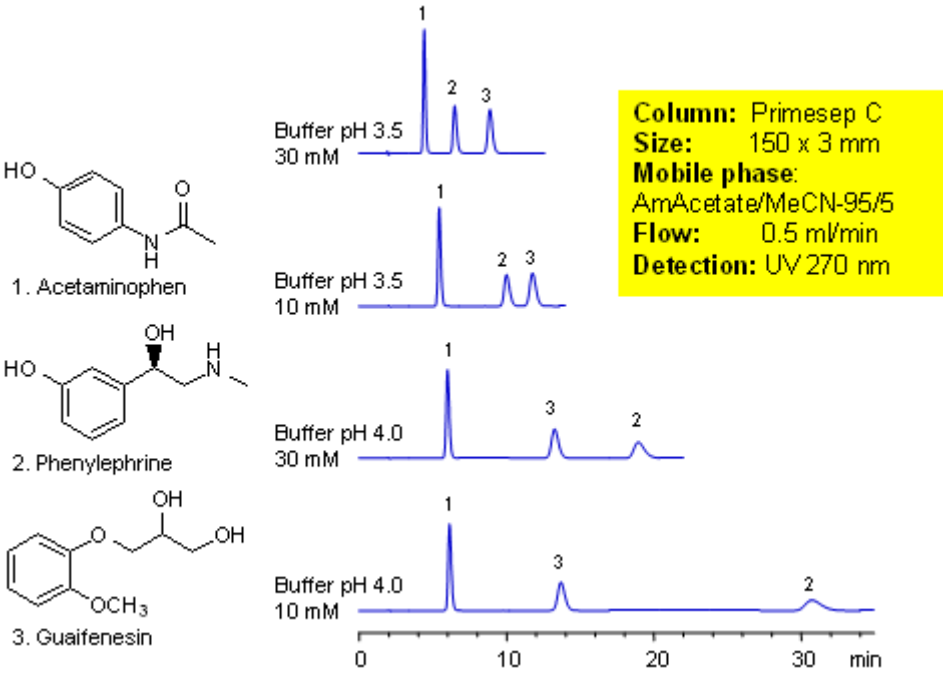
HPLC Separation of Polar Drugs with MS-compatible Method

https://sielc.com/Application-HPLC-Separation-of-Polar-Drugs-With-MS-compatible-Method

Chromatogram



Description

Acetaminophen is an over-the-counter pain and fever reducer, and a major component of cold and flue remedies. Phenylephrine is a decongestant. Guaifenesin is a mucolytic agent used to relieve respiratory difficulties. These three compounds of cough medication were separated by mixed-mode chromatography on a Primesep C HPLC column. Retention and order of elution for phenylephrine can be changed by buffer concentration and buffer pH. Method can be used for analysis of cough and cold composition during the production and in QC/QA environment. Method is compatible with LC/MS and can be used to analyze these components in biological fluids. This generic HPLC method is robust and reproducible.

Method Parameters

Mobile Phase	MeCN
Buffer	AmAc
Flow Rate	0.5 ml/min
Detection	UV, 270 nm
Class of Compounds	Drug, Analgetic, Acid, Hydrophilic, Ionizable,
Analyzing Compounds	Acetaminophen, Pseudoephedrine,Guaifenesin

HPLC Column Used

Primesep C, 3×150 mm, 5 µm, 100A

Order this column at hplc-shop.de →