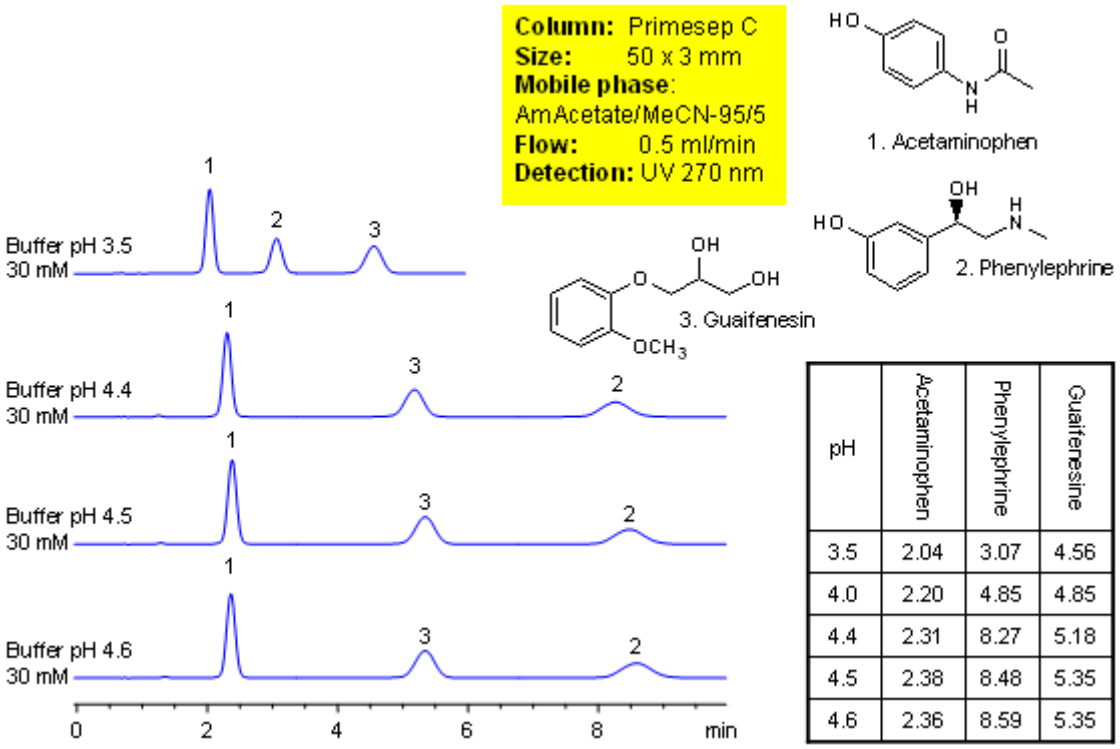
Effect of pH on Retention of Basic Compounds on Primesep C Columns

https://sielc.com/Application-Effect-of-PH-on-Retention-of-Basic-Compounds-on-Primesep-C-Columns

Chromatogram



pH	Acetaminophen	Phenylephrine	Guaifenesine
3.5	2.04	3.07	4.56
4.0	2.20	4.85	4.85
4.4	2.31	8.27	5.18
4.5	2.38	8.48	5.35
4.6	2.36	8.59	5.35

Description

Method for separation of components of cough medication shows how retention for acetaminophen, phenylephrine and guaifenesin is controlled. Order of elution for compounds can be changed based on composition of the mobile phase. The method is compatible with UV, ELSD and LC/MS and can be used for quantitation of drugs in formulation. Primesep C mixed-mode HPLC column is ideal candidate for analysis of cough compositions. Basic compounds are well retained in mixed-mode chromatography without use of ion-pairing reagents. Several companies validated this approach. The method is reproducible and robust and can be used in both production environments and R&D. This HPLC method can be adopted as general approach for analysis of basic compounds in various mixtures.

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, 3×50 mm, 5 µm, 100A

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