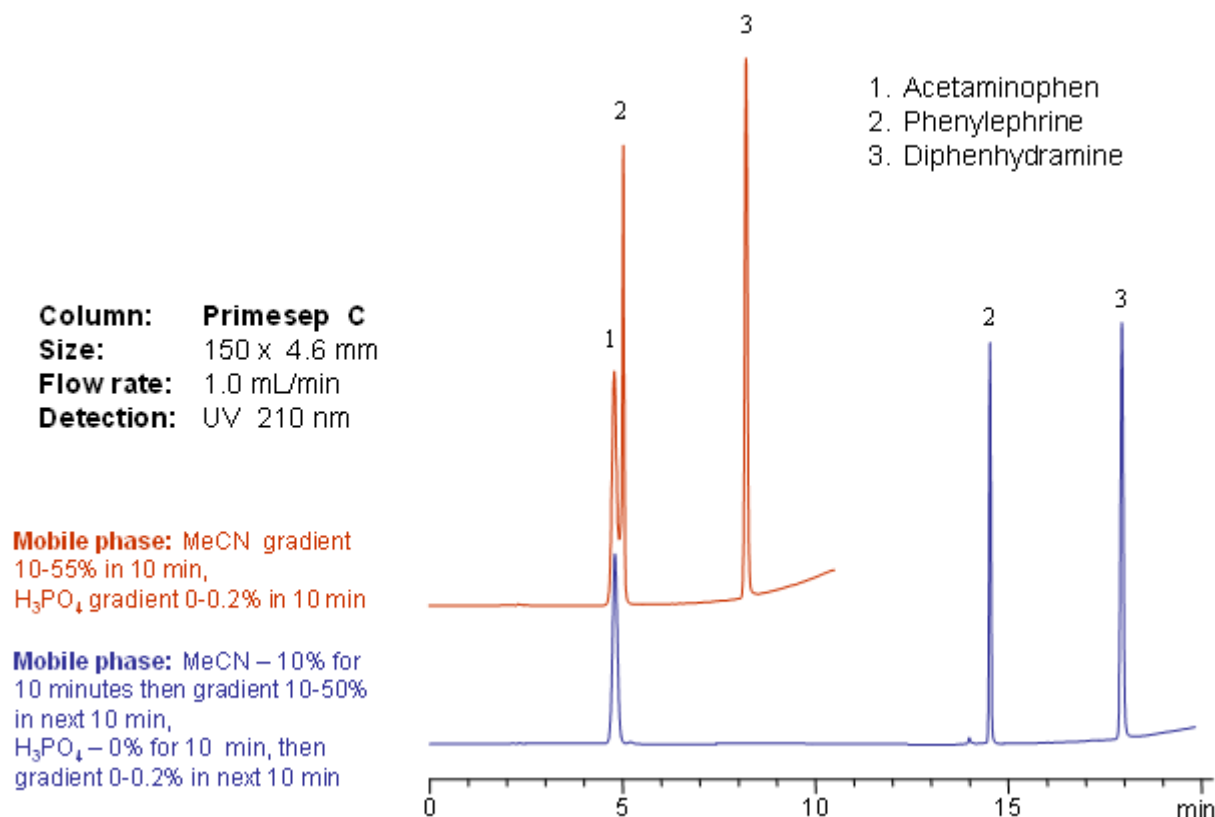


HPLC Separation of Acetaminophen, Phenylephrine, and Diphenhydramine

<https://sielc.com/Application-HPLC-Separation-of-Acetaminophen-Phenylephrine-and-Diphenhydramine>

Chromatogram



Description

Primesep C separates acetaminophen (paracetamol), phenylephrine, and diphenhydramine— common over-the-counter cold and flu medication ingredients such as Tylenol products—by either an acetonitrile or phosphoric acid gradient. The HPLC separation uses a mobile phase of water, acetonitrile (MeCN, ACN), and phosphoric acid with ultraviolet (UV) detection at 210 nm.

Method Parameters

Mobile Phase	MeCN
Buffer	H3PO4
Flow Rate	1.0 ml/min
Detection	UV, 210 nm
Class of Compounds	Drug, Analgetic, Acid, Hydrophilic, Ionizable,
Analyzing Compounds	Acetaminophen, Pseudoephedrine, Diphenhydramine

HPLC Column Used

Primesep C, 4.6x150 mm, 5 µm, 100A

[Order this column at hplc-shop.de →](#)