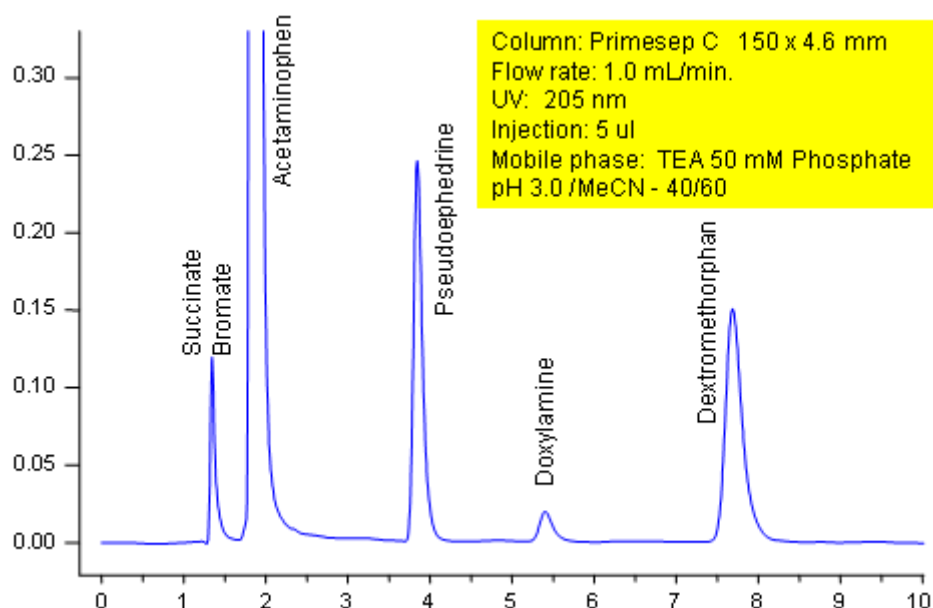


Separation of NyQuil Active Ingredients on Primesep C

<https://sielc.com/Application-Separation-of-NyQuil-Active-Ingredients-on-Primesep-C>

Chromatogram



Description

Primesep C separates the active ingredients in the over-the-counter cold medicine, NyQuil. Succinate and bromate co-elute early, but acetaminophen, pseudoephedrine, doxylamine, and dextromethorphan are baseline resolved. A combination of cation exchange, complex formation, and hydrophobic interactions separate this mixture with a mobile phase of water, acetonitrile (MeCN, ACN) and triethylamine (TEA) phosphate with UV detection at 205 nm.

Method Parameters

Mobile Phase	MeCN
Buffer	TEAPh
Flow Rate	1.0 ml/min
Detection	UV, 205 nm
Class of Compounds	Drug, Analgetic, Acid, Hydrophilic, Ionizable,
Analyzing Compounds	Acetaminophen, Pseudoephedrine, Doxylamine, Dextromethorphan

HPLC Column Used

Primesep C, 4.6x150 mm, 5 µm, 100A

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