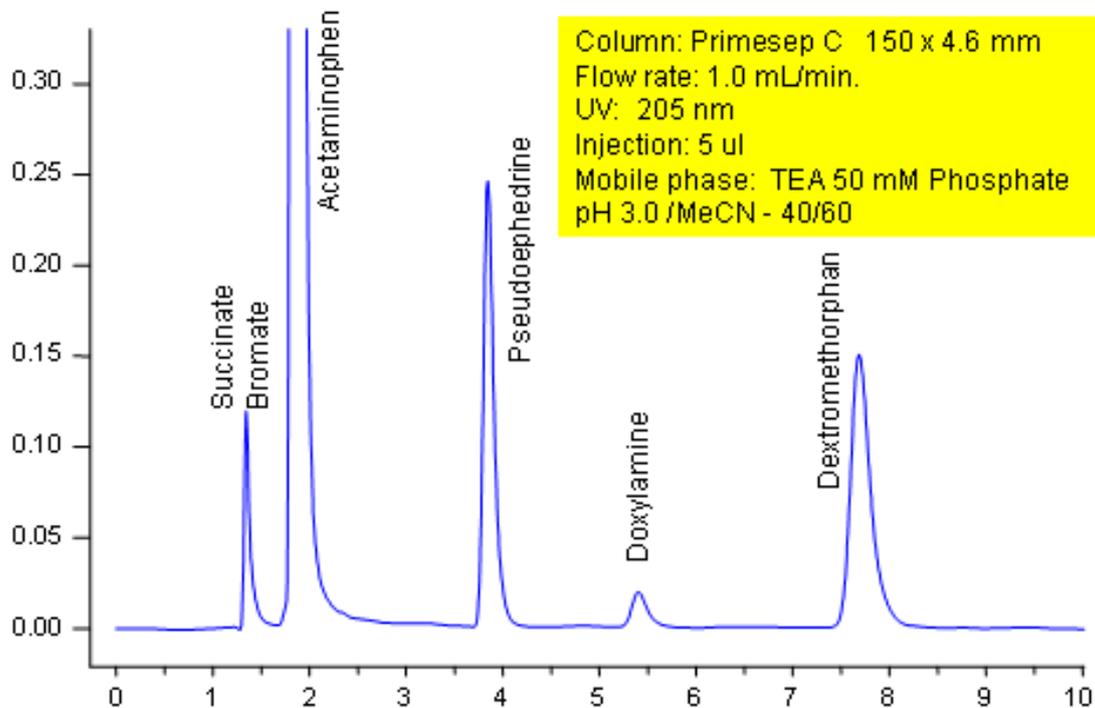


## Separation of NyQuil Active Ingredients on Primesep C



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

<b>Column</b>	Primesep C, 4.6x150 mm, 5 µm, 100 Å
<b>Mobile Phase</b>	MeCN
<b>Buffer</b>	TEAPh
<b>Flow Rate</b>	1.0 mL/min
<b>Detection</b>	UV, 205 nm

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