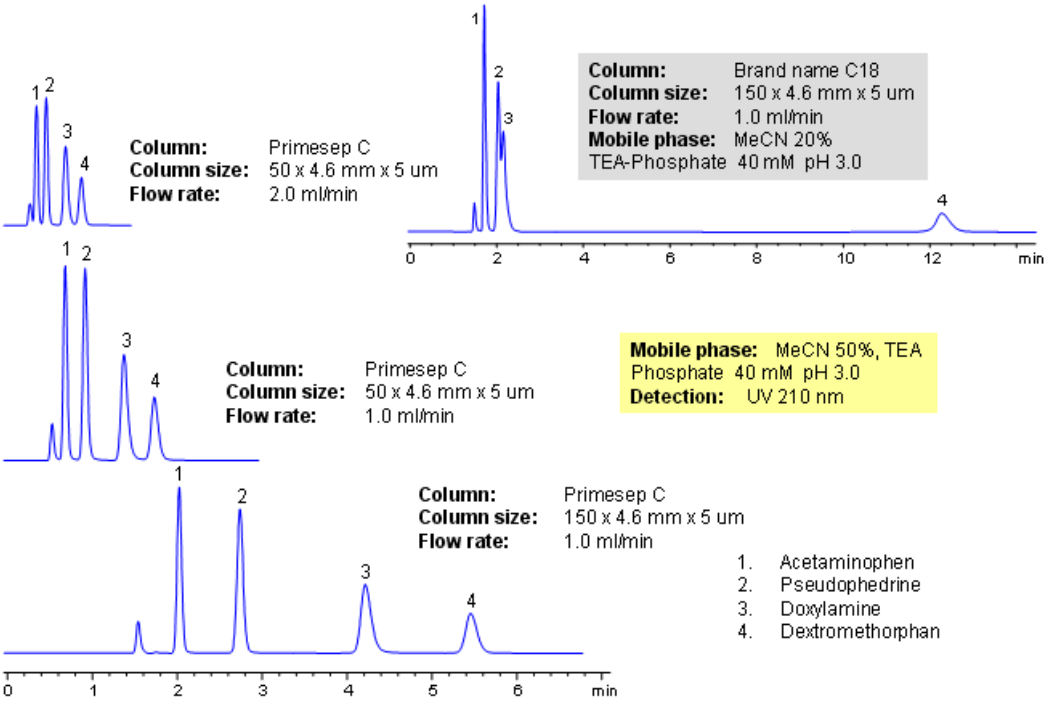
HPLC Separation of NyQuil Active Ingredients



NyQuil is a cough medication produced by Procter&Gamble. It consists of acetaminophen, pseudoephedrine, doxylamine and dextromethorphan. Most of the analytical HPLC methods include either use of ion-pairing reagent or a gradient elution. Mixed-mode chromatography allows to replace long gradient method with short isocratic method. All four compounds are well separated within 3-5 minutes. Methods can be optimized for analysis of other cough composition containing general cough suppressants and pain killers. Method is robust and being validated at several drug companies.

Method Parameters

Column	Primesep C, 4.6×50 mm, 5 µm, 100 Å
Mobile Phase	MeCN
Buffer	TEAPh
Flow Rate	1.0 mL/min
Detection	UV, 210 nm

Quelle: https://sielc.com/Application-HPLC-Separation-of-NyQuil-Active-Ingredients