Introduction

HPLC analysis of six actives in a children’s medication for colds and ‘flu’ is achieved with an Agilent Polaris C18-A column in less than four minutes.
**Conditions**

Column: Agilent Polaris C18-A, 4.6 x 30 mm, 5 µm  
Part no. A2001030X046

Eluent:  
A: H₂O + 0.1% TFA,  
B: MeOH + 0.1% TFA,

Gradient: 10 - 95% B in 5 min.,

Flow: 2.0 mL/min,

Temp: ambient

Detection: UV @ 214 nm,

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**Peak identification**

1. acetaminophen  
2. pseudoephedrine  
3. chlorpheniramine maleate  
4. dextromethorphan  
5. unknown  
6. unknown

Active Ingredients: Each 5 mL (teaspoon) contains:  
acetaminophen, 160 mg, pain reliever  
chlorpheniramine maleate, 1 mg antihistamine  
dextromethorphan HBr, 7.5 mg, cough suppressant  
pseudoephedrine HCl, 15 mg, nasal decongestant