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Analysis of Food Sugars/Saccharides in Cough Syrup Using ACQUITY UPLC BEH Amide Columns

Waters Corporation

This is an Application Brief and does not contain a detailed Experimental section.

Abstract

This application brief highlights the analysis of food sugars/saccharides in cough syrup using ACQUITY UPLC BEH Amide Columns.

Introduction

Structures

Experimental

Chromatographic Conditions

Column: ACQUITY UPLC BEH Amide 2.1 x 100 mm, 1.7 μm Part Number: 186004801 Mobile Phase A: 80/20 MeCN/H₂O with 0.2% triethylamine [TEA] Mobile Phase B: 30/70 MeCN/H₂O with 0.2% triethylamine [TEA] Flow Rate: 0.26 mL/min Gradient: 6 minute gradient, 80%-50% MeCN (w/0.2% TEA) with 12 minute re-equilibration Injection Volume: 1.3 μL (PLNO) Sample Concentration: Standards at 1 mg/mL each, cough syrups at 1% (v/v) Sample Diluent: 50/50 MeCN/H₂O 35 °C Column Temperature: Strong Needle Wash: MeCN/H₂O 20/80 (800 μL) Weak Needle Wash: $MeCN/H_2O$ 75/25 (500 µL) Seal Wash: MeCN/H₂O 50/50

Waters ACQUITY UPLC with ELSD

Instrument:

Gradient

Time	Profile			
(min)	%A	%B		
0.00	100.00	0.00		
6.00	40.00	60.00		
6.01	100.00	0.00		
18.00	100.00	0.00		

ELSD Conditions

Gain: 200

Pressure: 40 psi

Drift Tube Temperature: 40 °C

Nebulizer: Cooling

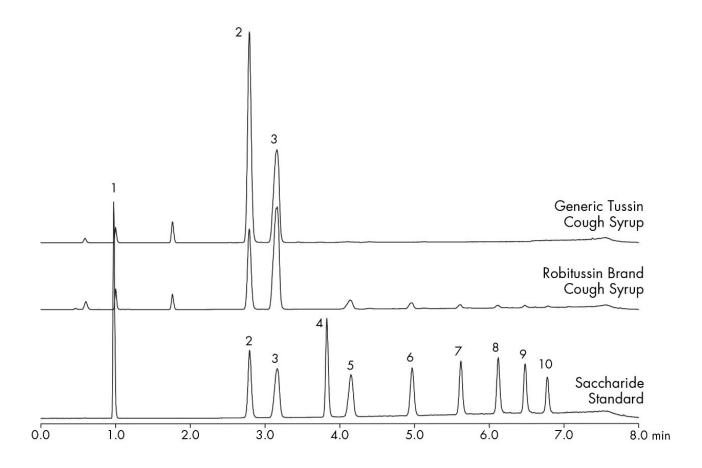
Data Rate: 10 pps

Filter Time Constant: Normal

Results and Discussion

The compounds analysed in this study are:

1 Tal			
1. p-Toluamide			
2. Fructose			
3. Glucose			
4. Sucrose			
5. Maltose			
6. Maltotriose			
7. Maltotetraose			
8. Maltopentaose			
9. Maltohexaose			
10. Maltoheptaose			



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ACQUITY UPLC ELS Detector https://www.waters.com/514219

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