Waters™

Application Note

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/H ₂ O with 0.2% triethylamine [TEA]		
Mobile Phase B:	30/70 MeCN/H ₂ O 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/H ₂ O		
Column Temperature:	35 °C		
Strong Needle Wash:	MeCN/H ₂ O 20/80 (800 μL)		
Weak Needle Wash:	MeCN/H ₂ O 75/25 (500 μL)		
Seal Wash:	MeCN/H ₂ O 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

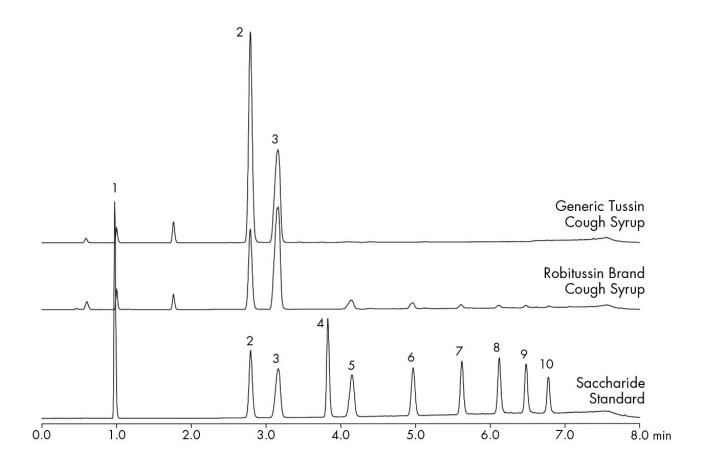
Data Rate: 10 pps

Filter Time Constant: Normal

Results and Discussion

The compounds analysed in this study are:

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



Featured Products

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

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