Waters™

應用手冊

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

Waters Corporation

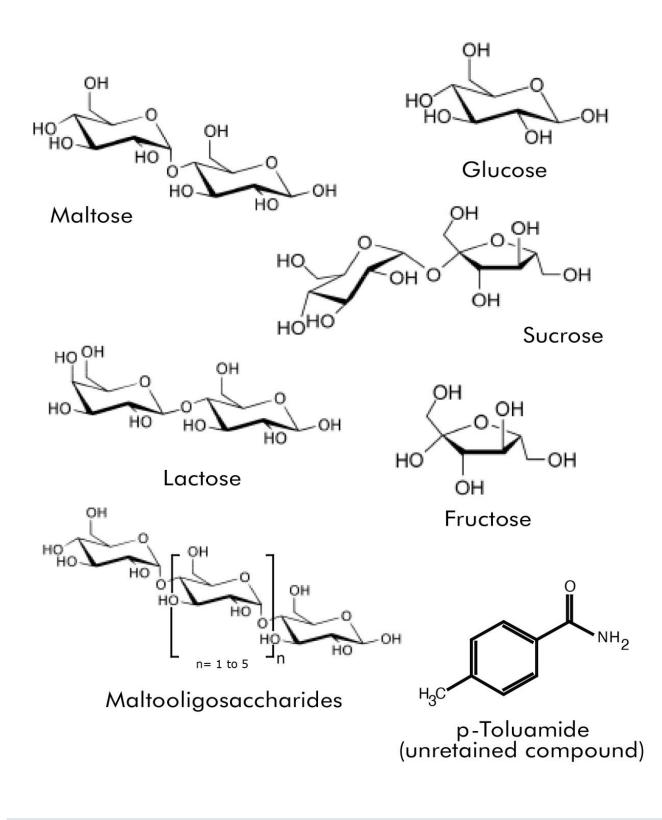
This is an Application Brief and does not contain a detailed Experimental section.

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	

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

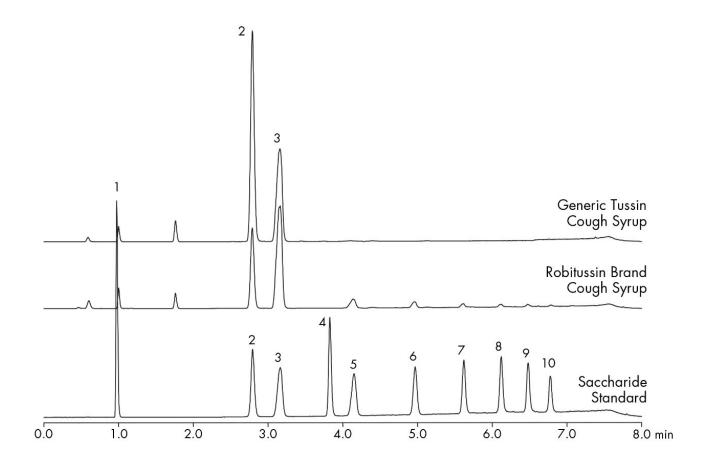
ELSD Conditions

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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