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Analysis of Food Sugars in Bran with Raisins Cereal 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 in bran with raisins cereal using ACQUITY UPLC BEH Amide Columns.

Introduction

Structures

Experimental

Chromatographic Conditions

Column: ACQUITY UPLC BEH Amide 2.1 x 150 mm, 1.7 μm

Part Number: 186003462

Mobile Phase A: 80/20 MeCN/H₂O with 0.2% triethylamine [TEA]

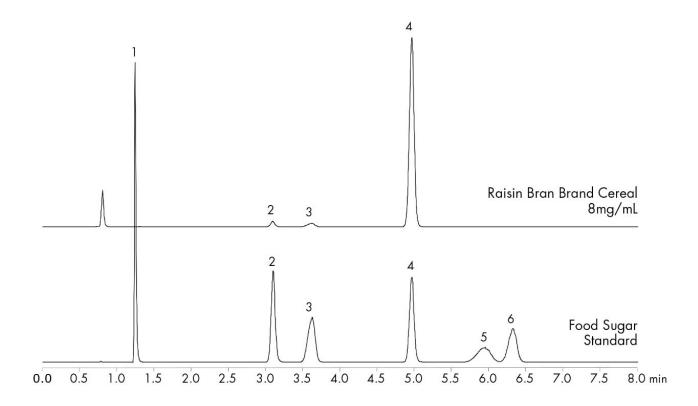
Mobile Phase B:		30/70 MeCN/H ₂ O with 0.2% triethylamine [TEA]
Flow Rate:		0.29 mL/min
Flow Profile:		90% A/10% B (75% MeCN with 0.2% TEA)
Injection Volume:		2.0 μL (PLNO)
Sample Concentration:		Standards at 1 mg/mL each, cereal extracted at 8 mg/mL
Sample Diluent:		50/50 MeCN/H ₂ O
Column Temperature:		35 °C
Strong Needle Wash:		20/80 MeCN/H ₂ O (800 μL)
Weak Needle Wash:		75/25 MeCN/H ₂ O (500 μL)
Seal Wash:		50/50 MeCN/H ₂ O
Instrument:		Waters ACQUITY UPLC with ELSD
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. Lactose



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

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