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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 μ

m

Part Number: 186003462

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: 0.29 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/H₂O Column Temperature: 35 °C Strong Needle Wash: $20/80 \text{ MeCN/H}_2\text{O} (800 \mu\text{L})$ Weak Needle Wash: $75/25 \text{ MeCN/H}_2\text{O} (500 \mu\text{L})$ Seal Wash: 50/50 MeCN/H₂O Instrument: Waters ACQUITY UPLC with ELSD **ELSD Conditions** Gain: 200 Pressure: 40 psi

40 °C

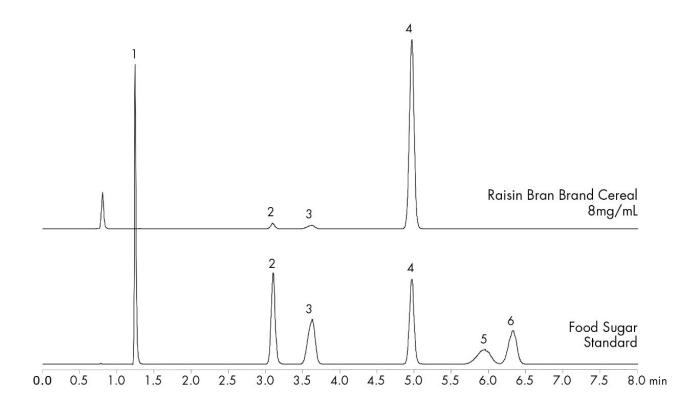
Drift Tube Temperature:

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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