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Analysis of Food Sugars in Prepared Foods 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 describes the analysis of food sugars in prepared food using ACQUITY UPLC BEH Amide Columns.

Introduction

Compounds used for this study includes:

- 1. p-Toluamide
- 2. Fructose
- 3. Glucose
- 4. Sucrose
- 5. Maltose

Sucrose

Lactose

Fructose

p-Toluamide (unretained compound)

Glucose

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Experimental

Chromatographic Conditions

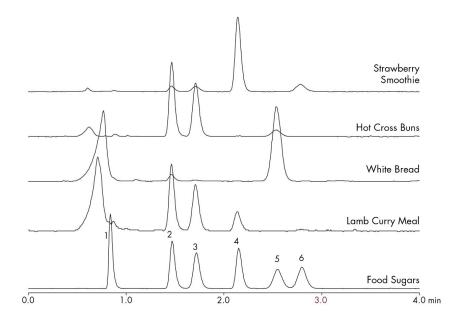
Column:	ACQUITY UPLC BEH Amide 2.1 x 50 mm, 1.7 μ m
Part number:	186004800
Mobile phase A:	80/20 acetone/ H_2O with 0.05% triethylamine [TEA]
Mobile phase B:	30/70 acetone/ H_2O with 0.05% triethylamine [TEA]
Flow rate:	0.15 mL/min
Flow profile:	95% A/5% B (77.5% acetone with 0.05% TEA)
Injection volume:	0.7 μL (PLNO)
Sample concentration:	Standards at 1 mg/mL each
Sample diluent:	50/50 MeCN/H ₂ O
Column temperature:	85 °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

ELSD Conditions	
Gain:	200
Pressure:	40 psi
Drift tube temperature:	40 °C
Nebulizer:	Cooling
Data rate:	10 pps
Filter time constant:	Normal

Waters ACQUITY UPLC with ELSD

Results and Discussion

Instrument:



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

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