Waters™

응용 자료

Analysis of Food Sugars 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 demonstrates analysis of food sugars.

Introduction

Compounds a	analysed	in this	application	brief are:
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- 1. p-Toluamide
- 2. Fructose
- 3. Glucose
- 4. Sucrose
- 5. Maltose
- 6. Lactose

Structures

p-Toluamide (unretained compound)

Lactose

Experimental

Test Conditions

Chromatographic Conditions

Column: ACQUITY UPLC BEH Amide 2.1 x 100 mm, 1.7 μ m

Part Number: 186004801

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

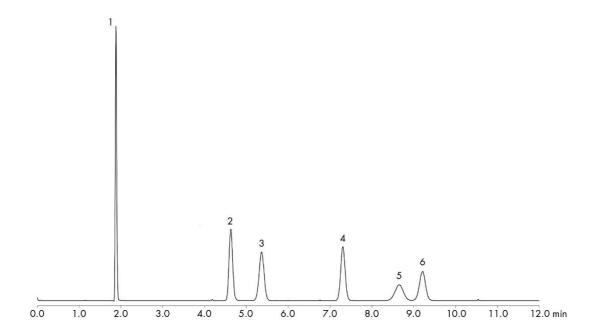
Mobile Phase B: 30/70 MeCN/H₂O with 0.2% triethylamine [TEA]

Flow Profile:	90% A/10% B (75% MeCN with 0.2 % TEA)
Injection Volume:	1.3 μL (PLNO)
Sample Concentration:	1 mg/mL each
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

0.13 mL/min

Flow Rate:

Results and Discussion



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ACQUITY UPLC System https://www.waters.com/514207

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

WA60109, October 2009

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