Waters™

アプリケーションノート

Analysis of Food Sugars Using ACQUITY UPLC BEH Amide Columns

日本ウォーターズ株式会社



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

Abstract

This application brief demonstrates analysis of food sugars.

Introduction

Compounds analysed in this application brief are:

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

Structures

Experimental

т	est	0	nd	:+	:~	nc
	esi	(.()	Π	ш	10	HS

Column:

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/H ₂ O with 0.2% triethylamine [TEA]			
Mobile Phase B:	30/70 MeCN/H ₂ O with 0.2% triethylamine [TEA]			
Flow Rate:	0.13 mL/min			
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

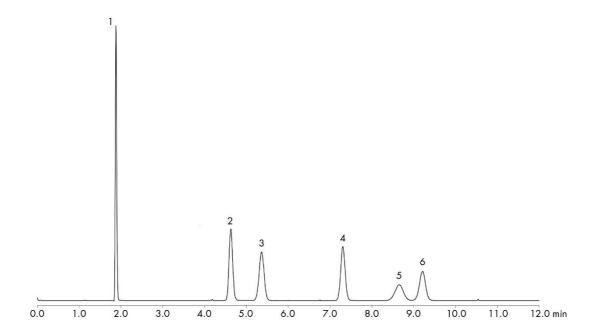
Drift Tube Temperature: 40 °C

Nebulizer: Cooling

Data Rate: 10 pps

Filter Time Constant: Normal

Results and Discussion



Featured Products

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

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

WA60109, October 2009

©2019 Waters Corporation. All Rights Reserved.