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Analysis of Mono-, Di-, and Oligosaccharides Using ACQUITY UPLC BEH Amide Columns with Acetone as Organic Modifiers

Waters Corporation

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

Abstract

This application brief highlights the analysis of oligosaccharides using ACQUITY UPLC BEH Amide Columns with acetone as organic modifiers.

Introduction

Compounds used for this study includes:

- 1. p-Toluamide
- 2. Fructose
- 3. Glucose

- 4. Sucrose
- 5. Maltose
- 6. Maltotriose
- 7. Maltotetraose
- 8. Maltopentaose
- 9. Maltohexahose
- 10. Maltoheptaose

STRUCTURES

Experimental

Chromatographic Conditions

Column:	ACQUITY UPLC BEH Amide 2.1 x 50 mm, 1.7 μm
Part number:	186004800
Mobile phase A:	80/20 acetone/ $\rm H_2O$ with 0.05% triethylamine [TEA]
Mobile phase B:	30/70 acetone/ H_2O with 0.05% triethylamine [TEA]
Flow rate:	0.17 mL/min
Gradient:	5 minute gradient, 80%–60% MeCN with 10 minute re-equilibration
Injection volume:	0.7 μL (PLNO)
Sample concentration:	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

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Waters ACQUITY UPLC with ELSD

0.00

0.00

Gradient:

5.01

Time (min)	%A	%B
0.00	100.00	0.00
5.00	60.00	40.00

100.00

15.00 100.00

ELSD Conditions

Gain: 200

Pressure: 40 psi

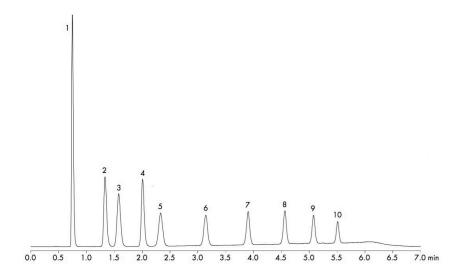
Drift tube temperature: 40 °C

Nebulizer: Cooling

Data rate: 10 pps

Filter time constant: Normal

Results and Discussion



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

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