Waters[™]

Note d'application

Analysis of Food Sugars in Ketchup Using ACQUITY UPLC BEH Amide Columns

Waters Corporation

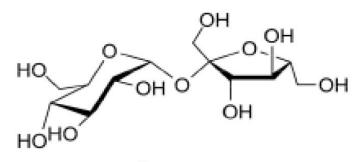
This is an Application Brief and does not contain a detailed Experimental section.

Abstract

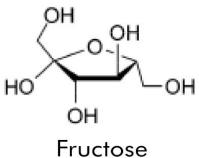
This application brief highlights the analysis of food sugars in ketchup using ACQUITY UPLC BEH Amide Columns.

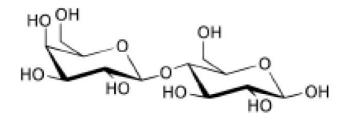
Introduction

Structures

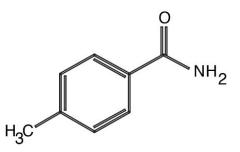


Sucrose

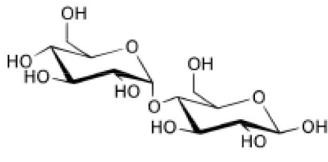




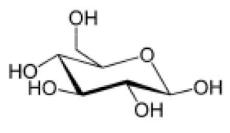
Lactose



p-Toluamide (unretained compound)



Maltose



Glucose

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 ₂ O with 0.05% triethylamine [TEA]
Mobile Phase B:	30/70 acetone/H ₂ O 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
Instrument:	Waters ACQUITY UPLC with ELSD

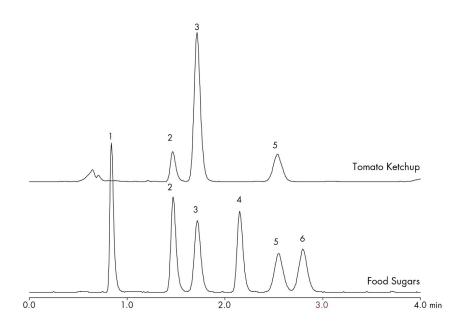
ELSD Conditions

Gain:	200
Pressure:	40 psi
Drift Tube Temperature:	40 °C
Nebulizer:	Cooling
Data Rate:	10 pps
Filter Time Constant:	Normal

Results and Discussion

The compounds analysed in this stdy are:

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



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WA60117, October 2009

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