## Waters™

#### Applikationsbericht

# Analysis of Food Sugars in Molasses Using ACQUITY UPLC BEH Amide Columns

ACQUITY	OPLC BEH Amide Colum	ıns

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 molasses using ACQUITY UPLC BEH Amide Columns.

#### Introduction

#### Structures

Sucrose

Lactose

$$\operatorname{H_{3}C}^{\circ}$$

p-Toluamide (unretained compound)

## Experimental

## **Chromatographic Conditions**

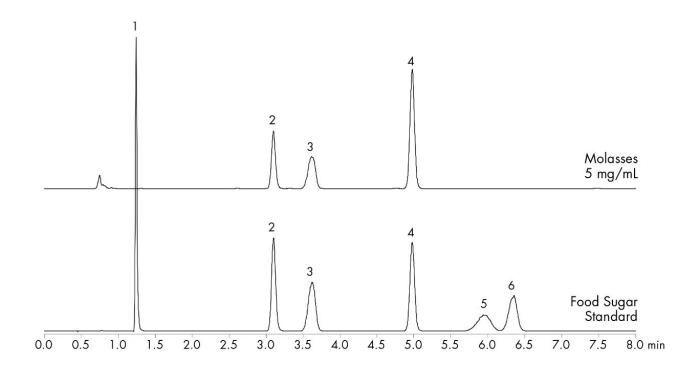
Column:	ACQUITY UPLC BEH Amide 2.1 x 150 mm, 1.7 µm
Part Number:	186004802
Mobile Phase A:	80/20 MeCN/H <sub>2</sub> O with 0.2% triethylamine [TEA]
Mobile Phase B:	30/70 MeCN/H <sub>2</sub> O with 0.2% triethylamine [TEA]
Flow Rate:	0.29 mL/min
Flow Profile:	90% A/10% B (75% MeCN with 0.2% TEA)
Injection Volume:	2.0 µL (PLNO)
Sample Concentration:	Standards at 1 mg/mL each, molasses at 5 mg/mL
Sample Diluent:	50/50 MeCN/H <sub>2</sub> O
Column Temperature:	35 °C
Strong Needle Wash:	20/80 MeCN/H <sub>2</sub> O (800 μL)
Weak Needle Wash:	75/25 MeCN/H <sub>2</sub> O (500 μL)
Seal Wash:	50/50 MeCN/H <sub>2</sub> 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 study are:

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



#### **Featured Products**

2424 Evaporative Light Scattering (ELS) Detector <a href="https://www.waters.com/514428">https://www.waters.com/514428</a>

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