# Waters™

# Nota de aplicación

# Analysis of Food Sugars/Saccharides in Potato Chips 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/saccharides in potato chips using ACQUITY UPLC BEH Amide Columns.

### Introduction

# Structures

# Experimental

# **Chromatographic Conditions**

Column: ACQUITY UPLC BEH Amide 2.1 x 100 mm, 1.7 µm Part Number: 186004801 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: 0.13 mL/min Gradient: 10 minute gradient, 80%-50% MeCN (w/0.2% TEA) with 25 minute re-equilibration Injection Volume: 1.3 µL (PLNO) Sample Concentration: Standards at 1 mg/mL each, potato chips extracted at 120mg/mL Sample Diluent: 50/50 MeCN/H<sub>2</sub>O 35 °C Column Temperature: 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:

#### Gradient

Time	Profile	
(min)	%A	%B
0.00	100.00	0.00
10.00	40.00	60.00
10.01	100.00	0.00
35.00	100.00	0.00

#### **ELSD Conditions**

Gain:	200
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duiiii	200

Pressure: 40 psi

Drift Tube Temperature: 40 °C

Nebulizer: Cooling

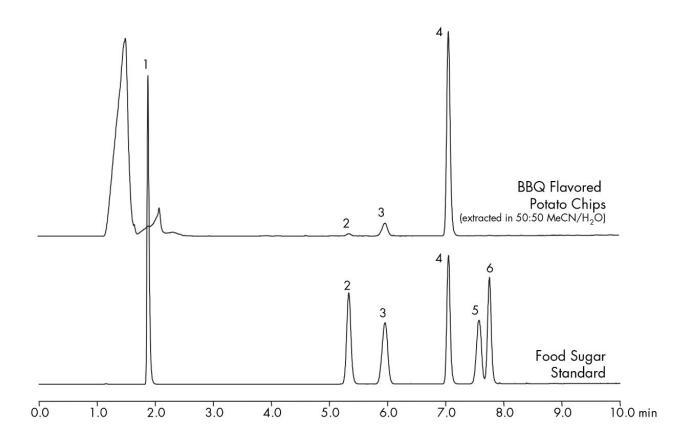
Data Rate: 10 pps

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**

ACQUITY UPLC ELS Detector <a href="https://www.waters.com/514219">https://www.waters.com/514219</a>

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