## Waters™



# Analysis of Food Sugars in Sports Drink 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 describes analysis of food sugars in sport drink using ACQUITY UPLC BEH Amide Column.

#### Introduction

Compounds used for this study includes:

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

#### 6. Lactose

Lactose

p-Toluamide (unretained compound)

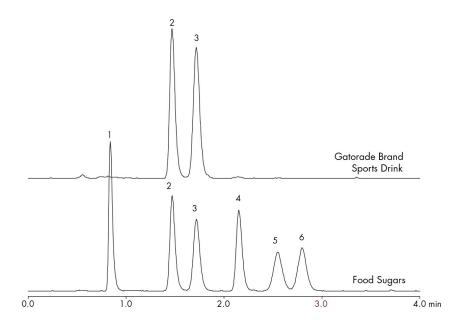
## Experimental

### **Chromatographic Conditions**

Column: ACQUITY UPLC BEH Amide 2.1 x 50 mm, 1.7 μm Part number: 186004800 Mobile phase A: 80/20 acetone/H<sub>2</sub>O with 0.05% triethylamine [TEA] Mobile phase B: 30/70 acetone/H<sub>2</sub>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:  $0.7 \,\mu$ L (PLNO) Sample concentration: Standards at 1 mg/mL each Sample diluent: 50/50 MeCN/H<sub>2</sub>O 85 °C Column temperature: Strong needle wash: 20/80 MeCN/H<sub>2</sub>O (800 μL) Weak needle wash:  $75/25 \text{ MeCN/H}_2\text{O} (500 \mu\text{L})$ 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**



#### **Featured Products**

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

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