

Analysis of Stevia Related Compounds Using ACQUITY UPLC BEH Amide Columns

Waters Corporation

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

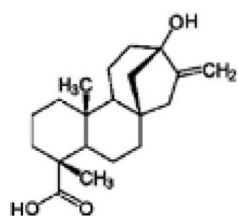
Abstract

This application brief highlights the analysis of stevia related compounds using ACQUITY UPLC BEH Amide Columns.

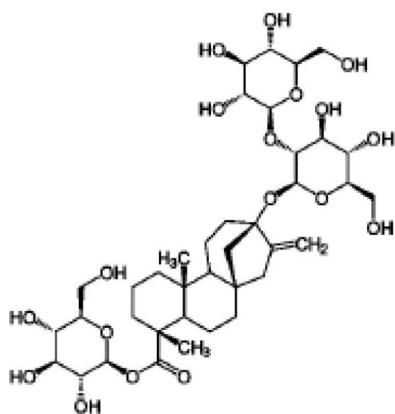
Introduction

The compounds used in this study are:

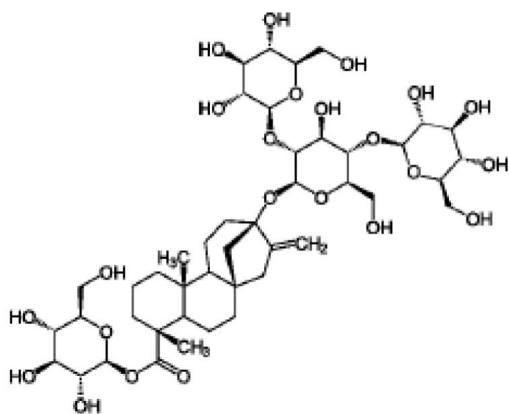
1. Steviol
 2. Stevioside
 3. Rebaudioside A
 4. Rebaudioside C
-



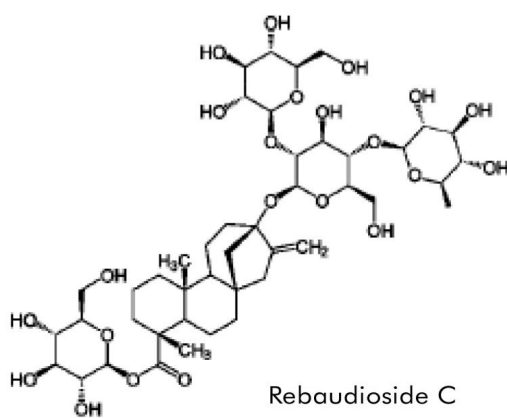
Steviol



Stevioside



Rebaudioside A



Rebaudioside C

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 ₂ O with 0.2% triethylamine [TEA]
Mobile Phase B:	30/70 MeCN/H ₂ O with 0.2% triethylamine [TEA]
Flow Rate:	0.20 mL/min
Injection Volume:	1.3 µL (PLNO)
Sample Concentration:	5 mg/mL
Sample Diluent:	50/50 MeCN/H ₂ O
Column Temperature:	35 °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

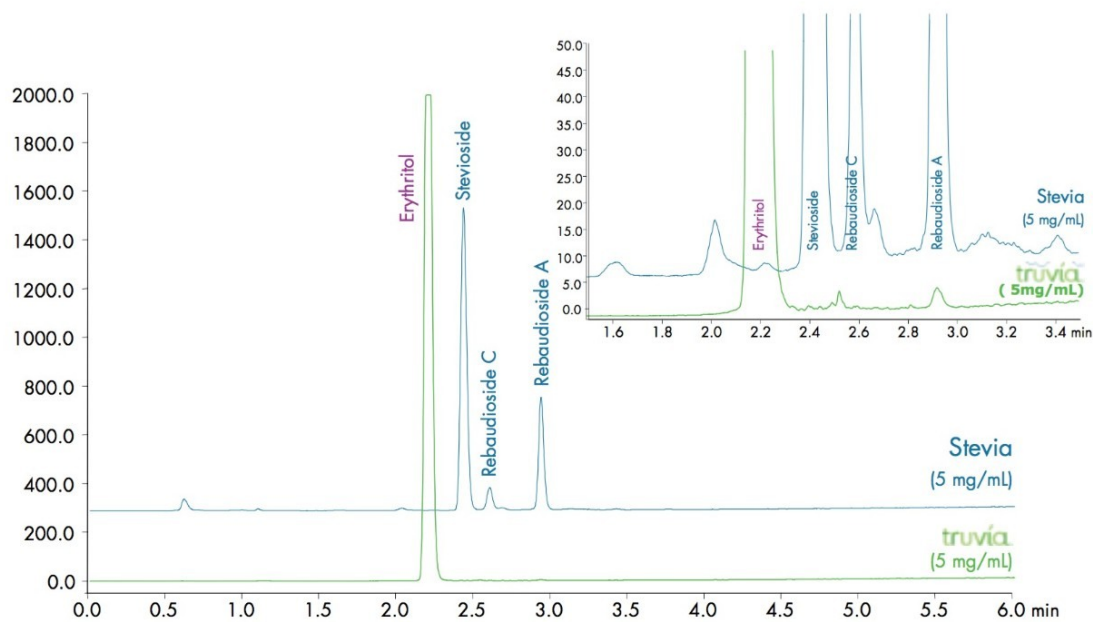
Drift Tube Temperature: 40 °C

Nebulizer: Cooling

Data Rate: 10 pps

Filter Time Constant: Normal

Results and Discussion



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

WA60128, October 2009

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