Waters™

アプリケーションノート

Analysis of Food Additives and Preservatives using XBridge Phenyl

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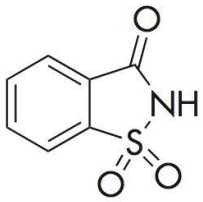
This is an Application Brief and does not contain a detailed Experimental section.

Abstract

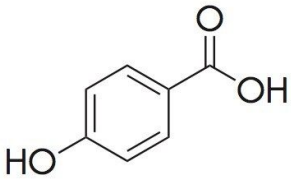
This application brief highlights the analysis of food additives and preservatives using XBridge Phenyl columns.

Introduction

Compounds used in this study are: 1. Saccharin 2. p- Hydroxybenzoic Acid 3. Sorbic Acid 4. Methylparaben 5. Dehydroacetic Acid

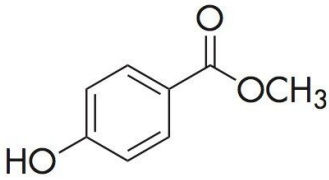


1. Saccharin

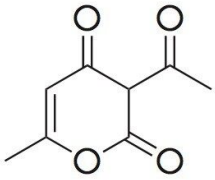


2. p-Hydroxybenzoic Acid

3. Sorbic Acid



4. Methylparaben



5. Dehydroacetic Acid

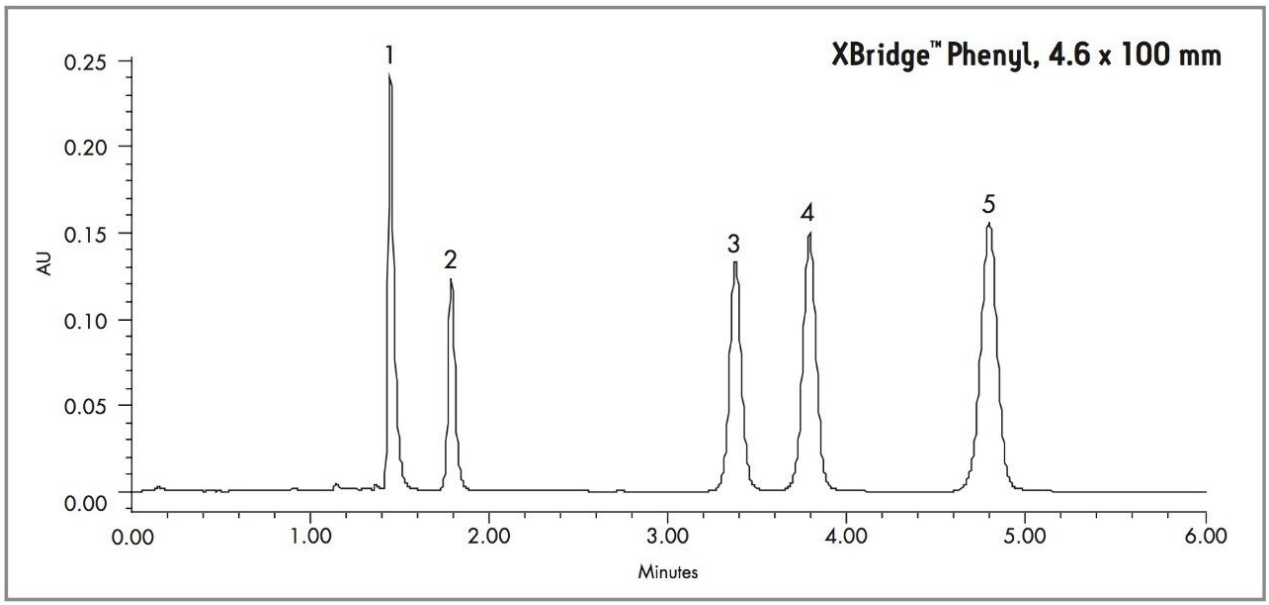
Experimental

Test Conditions

Columns:	XBridge Phenyl, 4.6 x 100 mm, 3.5 µm p/n: 186003334
Mobile phase A:	20 mM KH_2PO_4, pH 2.5

Mobile phase B:	ACN
Flow rate:	1.0 mL/min
Isocratic Mobile Phase Composition:	75% A; 25% B
Injection volume:	10 µL
Sample:	Saccharin (100 µg/mL), P- hydroxybenzoic Acid (10 µg/mL), DehydroAcetic Acid (100 µg/mL), Methylparaben (25 µg/mL), Sorbic Acid (10 µg/mL), in KH_2PO_4/ACN (75/25)
Column temp.:	30 °C
Sampling temp.:	15 °C
Detection:	UV @ 254 nm
Sampling Rate:	5 points/sec
Filter Response:	0.2
Instrument:	Alliance 2695 with 2996 PDA

Results and Discussion



Compounds: 1. Saccharin 2. p- Hydroxybenzoic Acid 3. Sorbic Acid 4. Methylparaben 5. Dehydroacetic Acid.

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