

Analysis of Food Additives and Preservatives using XBridge Phenyl

Waters Corporation



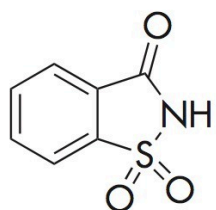
This is an Application Brief and does not contain a detailed Experimental section.

Abstract

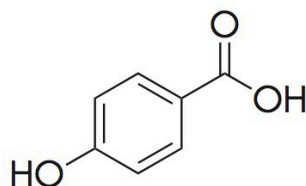
This application brief highlights the analysis of food additives and preservatives using XBridge Phenyl columns.

Introduction

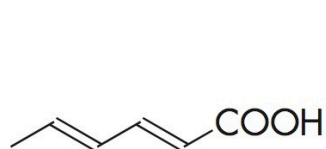
Compounds used in this study are: 1. Saccharin 2. p- Hydroxybenzoic Acid 3. Sorbic Acid 4. Methylparaben 5. Dehydroacetic Acid



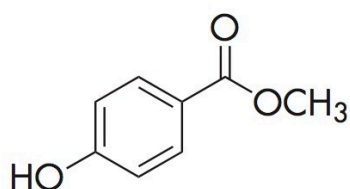
1. Saccharin



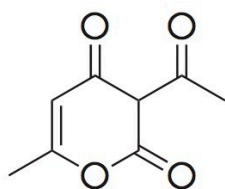
2. p-Hydroxybenzoic Acid



3. Sorbic Acid



4. Methylparaben



5. Dehydroacetic Acid

Experimental

Test Conditions

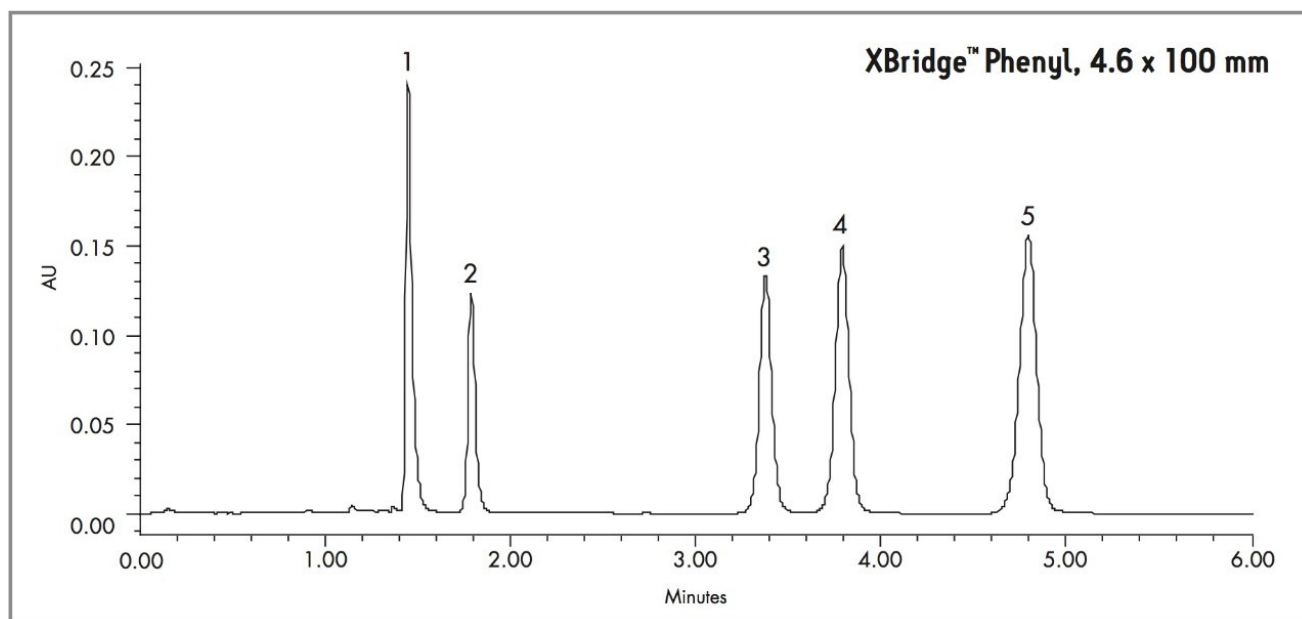
Columns:

XBridge Phenyl, 4.6 x 100 mm, 3.5 μ m p/n:

186003334

| | |
|-------------------------------------|--|
| Mobile phase A: | 20 mM KH ₂ PO 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 ₂ PO 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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