

## Analysis of Mouthwash Using XBridge Shield RP18

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Waters Corporation



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

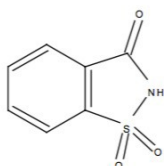
### Abstract

This application brief describes the analysis of mouthwash using XBridge Shield RP18 Column.

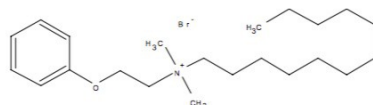
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## Introduction

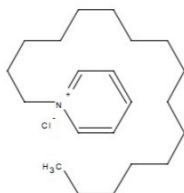
This application brief analyse various compounds including sodium saccharin, domiphen bromide, and cetylpyridinium chloride (Figure 1) using XBridge Shield RP18 Column.



**Sodium Saccharin**



**Domiphen Bromide**



**Cetylpyridinium Chloride**

## Experimental

### Test Conditions

|                 |                                                    |
|-----------------|----------------------------------------------------|
| Columns:        | XBridge Shield RP18, 4.6 x 100 mm, 3.5 $\mu$ m     |
| Part Number:    | 186003044                                          |
| Mobile Phase A: | 0.1 mM CH <sub>3</sub> COONH <sub>4</sub> , pH 5.4 |

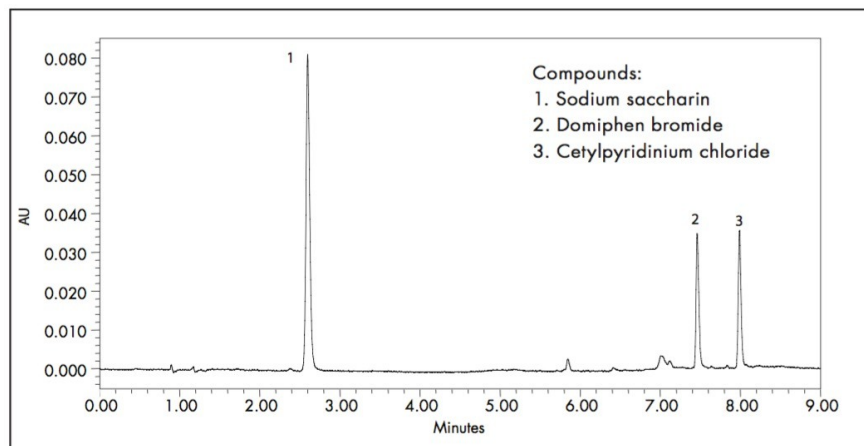
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|                   |                                                                                                                                                |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Mobile Phase B:   | ACN                                                                                                                                            |
| Flow Rate:        | 1.2 mL/min                                                                                                                                     |
| Injection Volume: | 20 µL                                                                                                                                          |
| Sample:           | Sodium Saccharin (50 µg/mL), Domiphen Bromide (50 µg/mL), Cetylpyridinium chloride (10 µg/mL) in ACN/CH <sub>3</sub> COONH <sub>4</sub> (5/95) |
| Column Temp:      | 30 °C                                                                                                                                          |
| Sample Temp:      | 20 °C                                                                                                                                          |
| Detection:        | UV @ 262 nm                                                                                                                                    |
| Sampling Rate:    | 5 point/sec                                                                                                                                    |
| Filter Response:  | 0.2                                                                                                                                            |
| Instrument:       | Waters Alliance 2695 with 2996 PDA                                                                                                             |

### Gradient:

| Time  | Profile |    |
|-------|---------|----|
| (min) | %A      | %B |
| 0.00  | 95      | 5  |
| 2.00  | 85      | 15 |
| 7.00  | 5       | 95 |
| 8.00  | 5       | 95 |
| 9.00  | 95      | 5  |
| 12.00 | 95      | 5  |

## Results and Discussion



## Featured Products

· [Alliance HPLC System <https://www.waters.com/534293>](https://www.waters.com/534293)

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