

Analysis of Mouthwash Using XBridge Shield RP18

Waters Corporation



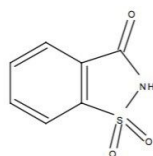
This is an Application Brief and does not contain a detailed Experimental section.

Abstract

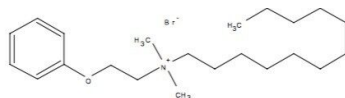
This application brief describes the analysis of mouthwash using XBridge Shield RP18 Column.

Introduction

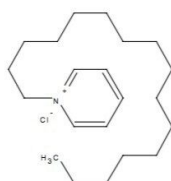
This application brief analyse various compounds including sodium saccharin, domiphen bromide, and cetylpyridinium chloride (Figure 1) using XBridge Shield RP18 Column.



Sodium Saccharin



Domiphen Bromide



Cetylpyridinium Chloride

Experimental

Test Conditions

Columns:	XBridge Shield RP18, 4.6 x 100 mm, 3.5 µm
Part Number:	186003044
Mobile Phase A:	0.1 mM CH ₃ COONH ₄ , pH 5.4
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/CH₃COONH₄ (5/95)

Column Temp: 30 °C

Sample Temp: 20 °C

Detection: UV @ 262 nm

Sampling Rate: 5 point/sec

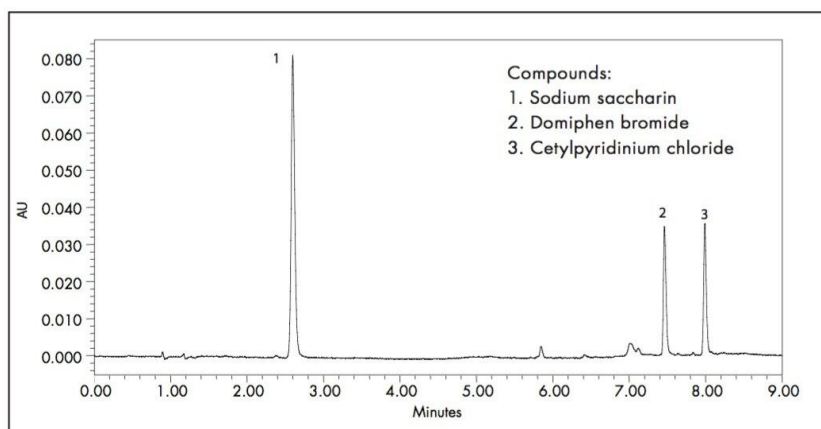
Filter Response: 0.2

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



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