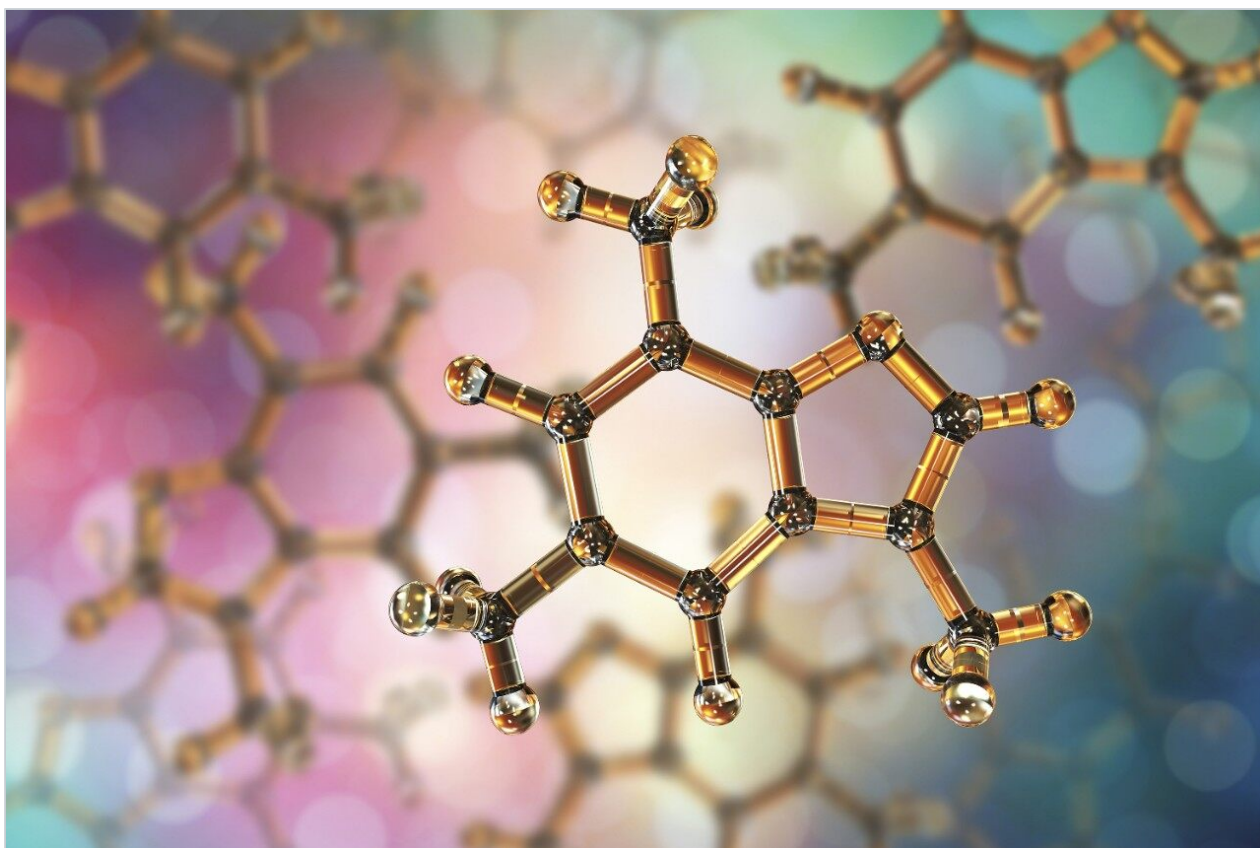


## Analysis of Caffeine and Metabolites Using XBridge C<sub>18</sub>

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Waters Corporation



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

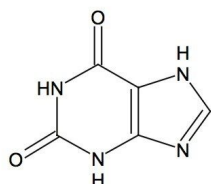
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### Abstract

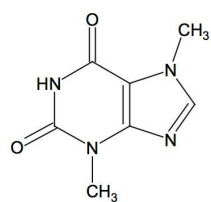
This application brief highlights the analysis of caffeine and metabolites using XBridge C<sub>18</sub> Columns.

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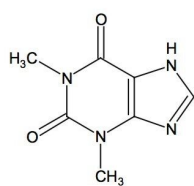
## Introduction



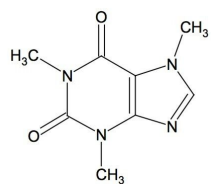
1. Xanthine



2. Theobromine



3. Theophylline



4. Caffeine

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# Experimental

## Test Conditions

|                       |                                                             |
|-----------------------|-------------------------------------------------------------|
| Column:               | XBridge C <sub>18</sub> , 5 µm, 4.6 x 150 mm p/n: 186003116 |
| Mobile Phase A:       | 5 Mm ammonium acetate pH 7.5                                |
| Mobile Phase B:       | acetonitrile                                                |
| Flow Rate:            | 1.0 mL/min                                                  |
| Injection Volume:     | 10 µL                                                       |
| Sample Concentration: | 20 µg/mL in water                                           |
| Temperature:          | 25 °C                                                       |
| Detection:            | UV @ 273 nm                                                 |
| Instrument:           | Alliance 2695 with 2996 PDA                                 |

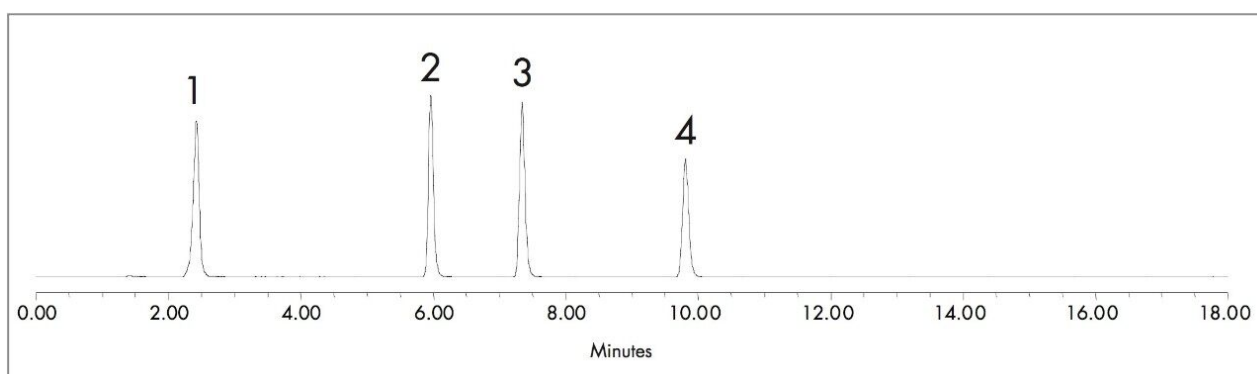
## Gradient

| Time (min) | %A | %B |
|------------|----|----|
| 0.0        | 98 | 2  |
| 15.0       | 80 | 20 |
| 18.0       | 80 | 20 |
| 19.0       | 98 | 2  |

| Time (min) | %A | %B |
|------------|----|----|
| 25.0       | 98 | 2  |

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## Results and Discussion



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## Featured Products

Alliance HPLC <<https://www.waters.com/514248>>

WA60169, April 2007