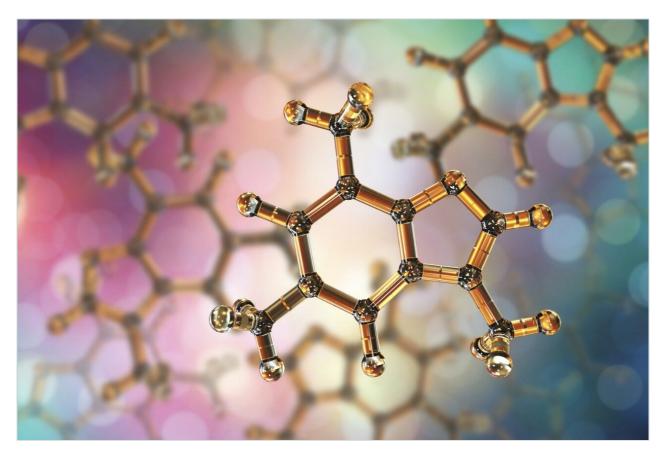
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Application Note

Analysis of Caffeine and Metabolites Using $XBridge\ C_{18}$

Waters Corporation



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

Abstract

This application brief highlights the analysis of caffeine and metabolites using XBridge C_{18} Columns.

Introduction

1. Xanthine

2. Theobromine

3. Theophylline

4. Caffeine

Experimental

Test Conditions

Column:	XBridge C_{18} , 5 μ m, 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 μ L

Sample Concentration: 20 µg/mL in water

Temperature: 25 °C

Detection: UV @ 273 nm

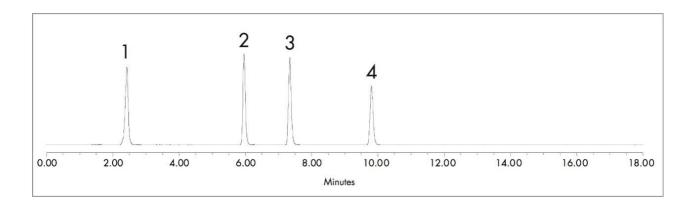
Instrument: Alliance 2695 with 2996 PDA

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

Results and Discussion



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