# Waters™

응용 자료

## Theophylline and Theobromine

Waters Corporation



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

#### **Abstract**

This application brief highlights the analysis of the ophylline and the obromine using Symmetry  ${\rm C_8}$  Columns.

### Introduction

The compounds analyzed in this study are:

- 1. Theophylline
- 2. Theobromine
- 3. Caffeine

## 1. Theobromine

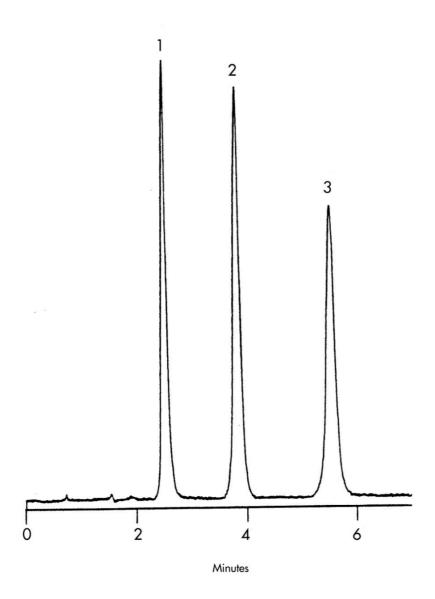
## 2. Theophylline

## 3. Caffeine

#### **HPLC** Method

Column:	Symmetry $C_8$ , 3.9 x 150 mm, 5 $\mu$ m
Guard column:	Symmetry Guard Column 3.9 x 20mm, 5 μm
Part numbers:	Column - WAT046970, Guard - WAT054250
Mobile phase:	10 mM potassium phosphate, pH 7.0/ methanol 76:24
Flow rate:	1.0 mL/min
Injection volume:	20 μL of 10 μg/mL sample
Detection:	UV @ 280 nm
USP Tailing Factors	
1. 1.18	
2. 1.03	
3. 1.01	

## Results and Discussion



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