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アプリケーションノート

Theophylline and Related Compounds

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 related compounds using Symmetry Shield RP_{18} Columns.

Introduction

The compounds analyzed in this study are:

- 1. Theobromine
- 2. Theophylline
- 3. 7-(2-hydroxyethyl) Theophylline

1. Theobromine

2. Theophylline

3. 7-(2-hydroxyethyl) Theophylline

Experimental

HPLC Method

Column: Symmetry Shield RP $_{18},\,3.0\,x\,150$ mm, 5 μm

Part number: 186000692

Mobile phase: 5 mM potassium phosphate, pH 2.0/acetonitrile

95:5

Flow rate: 0.6 mL/min

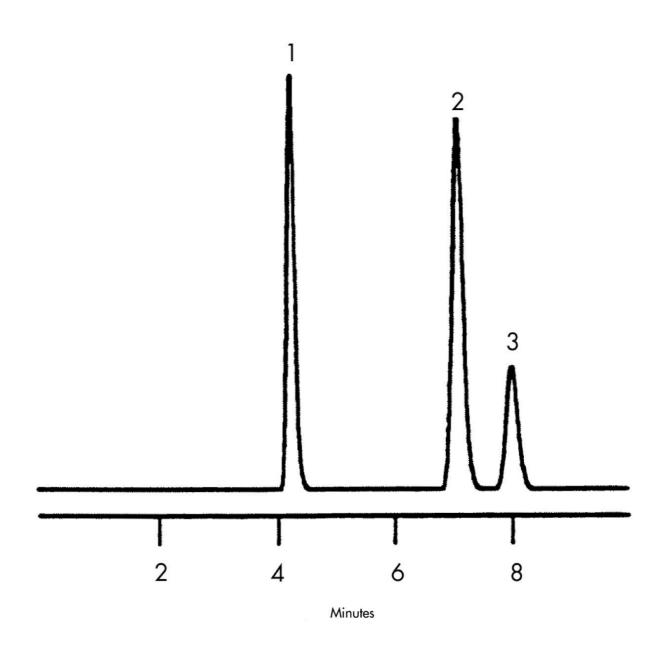
Injection volume: 5 µL injection of solution containing

theobromine (0.22 mg/mL), theophylline (0.26 mg/mL), and 7-(2-hydroxyethyl) theophylline

(0.13 mg/mL)

Detection: UV @ 270 nm

Results and Discussion



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