Waters™

アプリケーションノート

# Analysis of Analgesics Using Atlantis T3

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

## Abstract

This application brief highlights the analysis of analgesics.

## Introduction

Compounds analysed in this application brief :

1. Acetaminophen
2. Caffeine
3. 2-Acetamidophenol
4. Acetanilide
5. Acetylsalicyic acid
6. Phenacetin

## Experimental

### Test Conditions

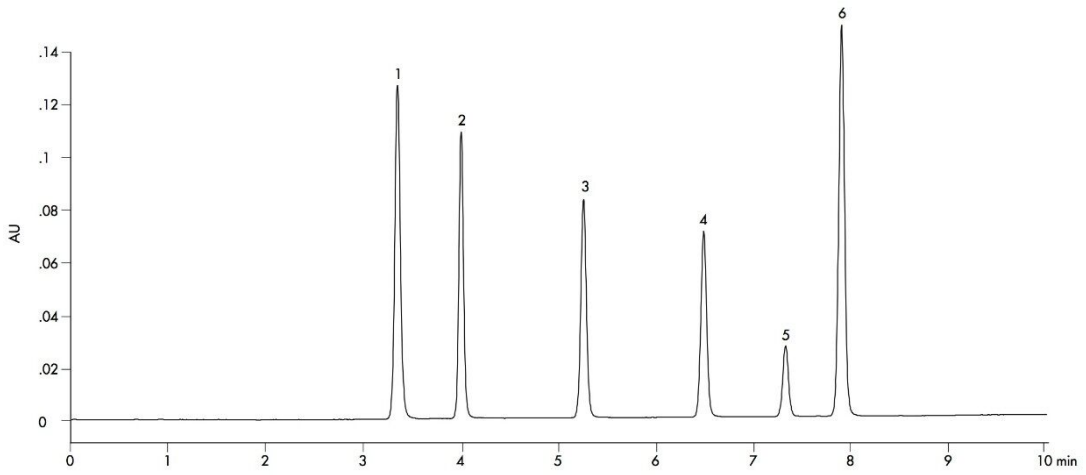
| | |
|---|---|
| Column: | Atlantis T3, 4.6 x 150 mm, 5 µm |
| Part Number: | 186003747 |
| Mobile Phase A: | $H_2O$ |
| Mobile Phase B: | ACN |
| Mobile Phase C: | 1% HCOOH in $H_2O$, pH 2.3 |
| Flow Rate: | 1.0 mL/min |
| Injection Volume: | 10 µL |
| Sample: | Acetaminophen (20 µg/mL), Caffeine (20 µg/mL), 2-Acetamidophenol (50 µg/mL), Acetanilide (20 µg/mL), Acetylsalicyic acid |

| | |
|---|---|
| | (50 µg/mL), Phenacetin (20 µg/mL) in $H_2O$ |
| Column Temperature: | 30 ˚C |
| Sample Temperature: | 15 ˚C |
| Detection: | UV @ 260 nm |
| Sampling Rate: | 5 point/sec |
| Filter Response: | 0.2 |
| Instrument: | Waters Alliance 2695 with 2996 PDA |

### Gradient

| Time (min) | Profile |
|---|---|
| | %A |
| 0.00 | 75 |
| 10.00 | 30 |
| 11.00 | 75 |
| 15.00 | 75 |

## Results and Discussion




*1. Acetaminophen, 2. Caffeine, 3. 2-Acetamidophenol, 4. Acetanilide, 5. Acetylsalicyic acid, 6. Phenacetin*

## Featured Products

Alliance HPLC System <https://www.waters.com/534293>

2998 Photodiode Array (PDA) Detector <https://www.waters.com/1001362>

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