Waters™

應用手冊

Analysis of Analgesics Using Atlantis T3

Waters Corporation

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

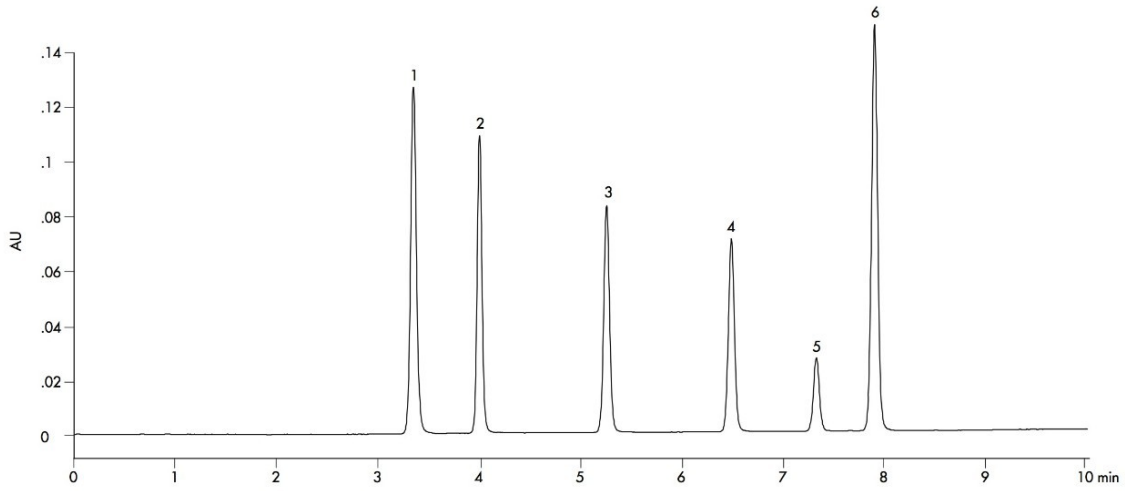
Column:	Atlantis T3, 4.6 x 150 mm, 5 µm
Part Number:	186003747
Mobile Phase A:	H_2O
Mobile Phase B:	ACN
Mobile Phase C:	1% HCOOH in H_2O, pH 2.3
Flow Rate:	1.0 mL/min
Injection Volume:	10 µL

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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