

Analysis of Catechins Using Atlantis T3 Columns

Waters Corporation



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

Abstract

This application brief demonstrates analysis of catechins using Atlantis T3 Columns.

Introduction

The compounds used in this study are -

1. Gallic acid
2. Epigallocatechin
3. Catechin
4. Caffeine
5. Epigallocatechin gallate
6. Epicatechin
7. Epicatechin gallate
8. Catechin gallate

Experimental

Test Conditions

Column:	Atlantis T3, 4.6 x 150 mm, 5 μ m
Part number:	186003747
Mobile phase A:	H ₂ O
Mobile phase B:	MeOH
Mobile phase C:	1% HCOOH in H ₂ O, pH 2.3
Flow rate:	1.0 mL/min

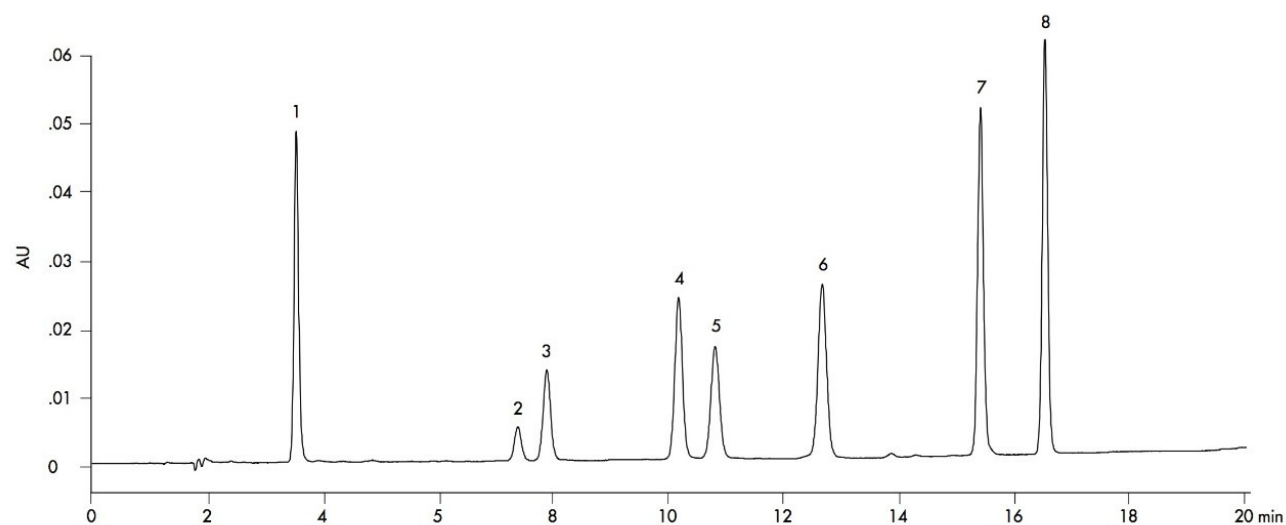
Injection volume:	10 µL
Sample:	Gallic Acid (10 µg/mL), Epigallocatechin (40 µg/mL), Catechin (20 µg/mL), Caffeine (10 µg/mL), Epigallocatechin Gallate (20 µg/mL), Epicatechin (40 µg/mL), Epicatechin Gallate (20 µg/mL), Catechin Gallate (20 µg/mL), in H ₂ O/MeOH (85/15)
Column temperature:	25 °C
Sample temperature:	15 °C
Detection:	UV @ 280 nm
Sampling rate:	5 point/sec
Filter response:	0.2
Instrument:	Waters Alliance 2695 with 2996 PDA

Gradient

Time (min)	Profile		
	%A	%B	%C
0.00	75	20	5

10.00	65	30	5
20.00	35	60	5
21.00	75	20	5
25.00	75	25	5

Results and Discussion



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