

Catechins

Waters Corporation



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

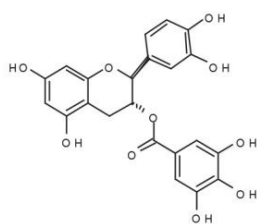
Abstract

This application brief highlights the analysis of catechins using XTerra Phenyl Columns.

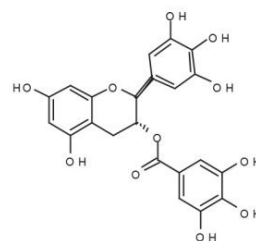
Introduction

The compounds analyzed in this study are:

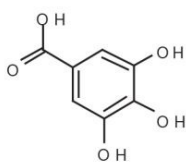
1. Gallic Acid
2. Epigallocatechin
3. Catechin
4. Caffeine
5. Epicatechin
6. Epigallocatechin Gallate
7. Gallocatechin Gallate
8. Epicatechin Gallate
9. Catechin Gallate



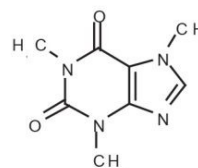
Catechin Gallate



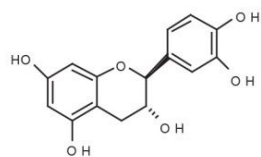
Gallocatechin Gallate



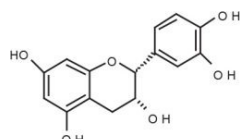
Gallic Acid



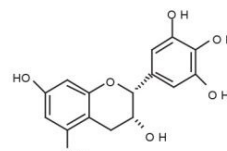
Caffeine



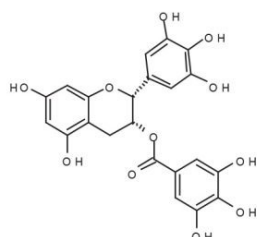
Catechin



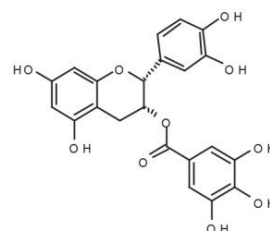
Epicatechin



Epigallocatechin



Epigallocatechin Gallate



Epicatechin Gallate

Experimental

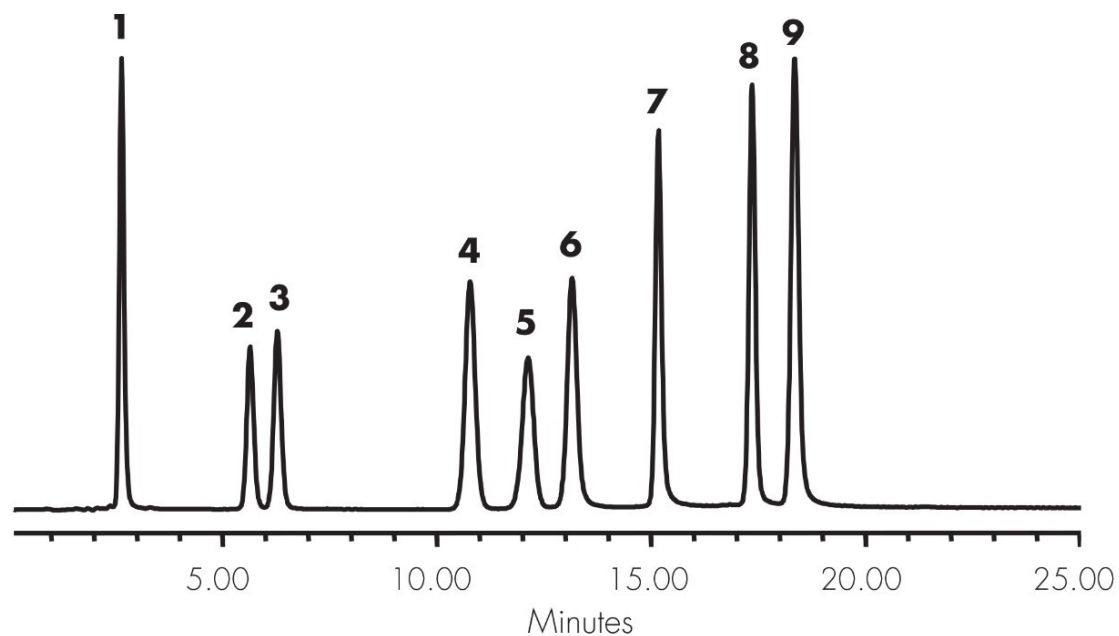
Conditions

Column:	XTerra Phenyl, 4.6 x 150 mm, 5 µm
Part number:	186001146
Mobile phase A:	H ₂ O
Mobile phase B:	MeOH
Mobile phase C:	50 mM HCOOH, pH 2.45
Flow rate:	1.0 mL/min
Injection volume:	20 µL
Temperature:	30 °C
Detection:	UV @ 280 nm
Instrument:	Alliance 2695, 2996 PDA

Gradient

Time (min)	Profile		
	%A	%B	%C
0.0	84	15	1
10.0	84	15	1
15.0	69	30	1
25.0	69	30	1

Results and Discussion



Featured Products

- [Alliance HPLC System <https://www.waters.com/534293>](https://www.waters.com/534293)
- [2998 Photodiode Array \(PDA\) Detector <https://www.waters.com/1001362>](https://www.waters.com/1001362)

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