

Catechin Mixture: SunFire Intelligent Speed Separation

Waters Corporation



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

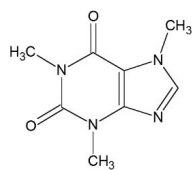
Abstract

This application brief highlights the separation of Catechin mixture found in tea using SunFire *IS* Column.

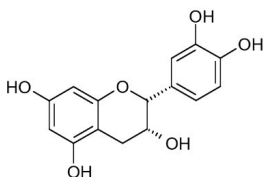
Introduction

Compounds use in this study:

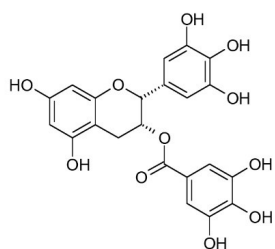
1. Caffeine
2. Epicatechin
3. Epigallocatechin Gallate



Caffeine



Epicatechin



Epigallocatechin Gallate

Experimental

Conditions

Column:	SunFire C ₈ 4.6 x 150 mm, 5 μm
Part number:	186002549
Mobile phase A:	0.1% HCOOH in Water
Mobile phase B:	0.1% HCOOH in Acetonitrile
Flow rate:	3 mL/min
Injection volume:	10 μL

Sample concentration: 20 µg/mL in water

Temperature: 30 °C

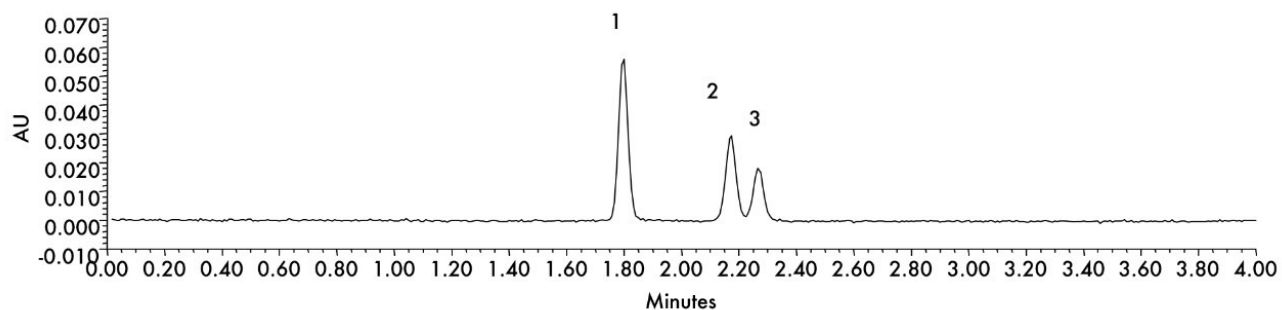
Detection: UV @ 280 nm

Instrument: Alliance 2695 with 2996 PDA

Gradient

Time (min)	Profile	
	%A	%B
0.0	100	0
4.0	60	40

Results and Discussion



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· [Alliance HPLC <https://www.waters.com/514248>](https://www.waters.com/514248)

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