

Catechin Mixture: SunFire Intelligent Speed Separation

Waters Corporation



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

Abstract

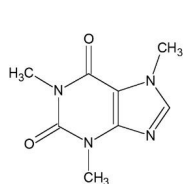
This application brief highlights the separation of Catechin mixture found in tea using SunFire *IS*

Column.

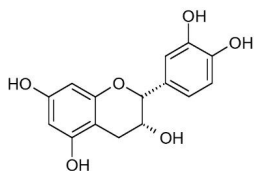
Introduction

Compounds use in this study:

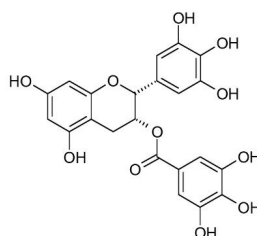
1. Caffeine
2. Epicatechin
3. Epigallocatechin Gallate



Caffeine



Epicatechin



Epigallocatechin Gallate

Experimental

Conditions

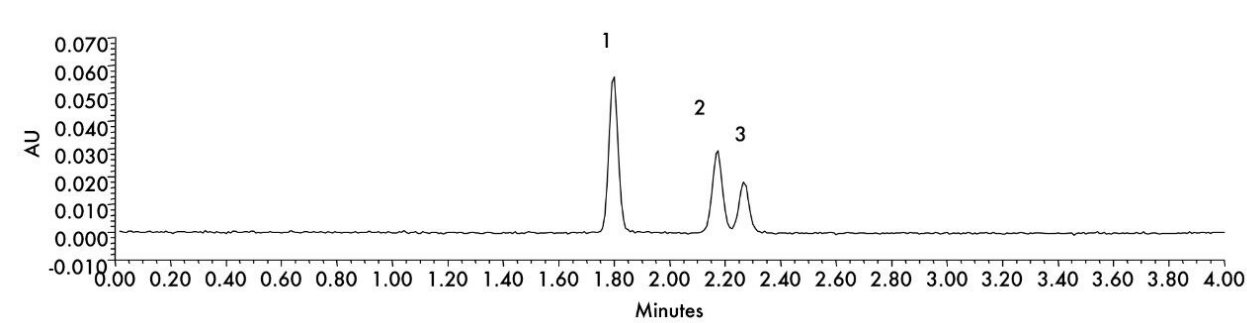
Column:	SunFire C ₈ 4.6 x 150 mm, 5 μm
Part number:	186002549
Mobile phase A:	0.1% HCOOH in Water
Mobile phase B:	0.1% HCOOH in Acetonitrile
Flow rate:	3 mL/min

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>>

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