Waters™

アプリケーションノート

Catechins, pH 10.0 – 4.6 x 20 mm Intelligent Speed Separation

Waters Corporation

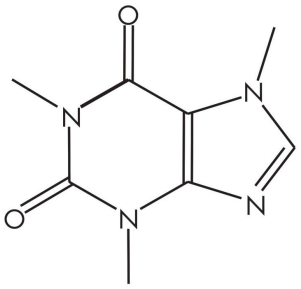
This is an Application Brief and does not contain a detailed Experimental section.

Abstract

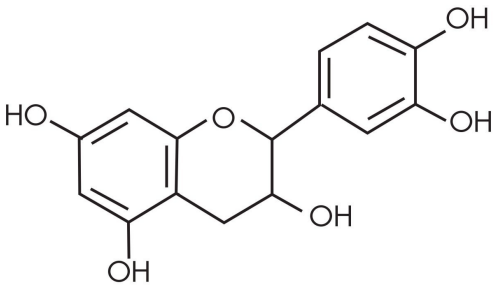
This application brief demonstrates analysis of catechins using Symmetry Columns.

Introduction

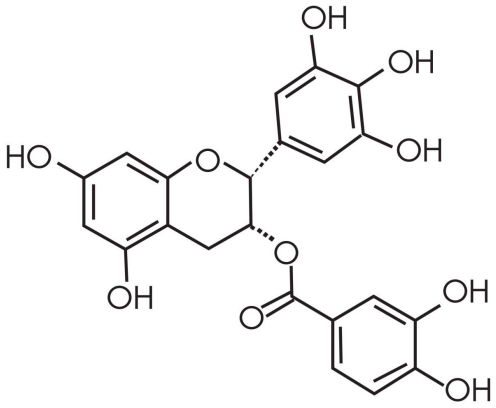
Structures



Caffeine



Epicatechin



Epigallocatechin Gallate

Experimental

Conditions

Column:	Symmetry C_{18}, 4.6 x 20 mm IS, 3.5 µm, (P/N: 186002090) SymmetryShield RP18, 4.6 x 20 mm IS, 3.5 µm, (P/N: 186002092)
Mobile phase A:	0.1% HCOOH in Water
Mobile phase B:	0.1% HCOOH in Methanol
Flow rate:	3.0 mL/min
Injection volume:	10 µL
Sample concentration:	20 µg/mL
Temperature:	30°C
Detection:	UV @ 280 nm
Instrument:	Alliance 2795 with 996 PDA

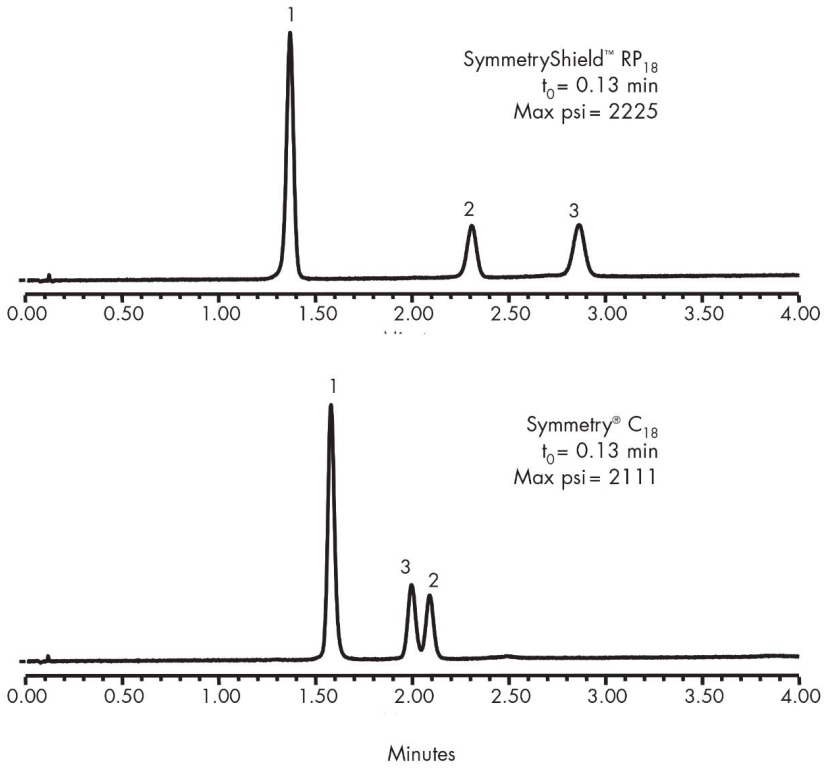
Gradient

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

Results and Discussion

The compounds analyzed in this study are:

1. Caffeine
2. Epicatechin
3. Epigallocatechin Gallate



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