

Analysis of Catechins Using XBridge Phenyl

Waters Corporation

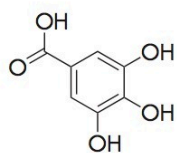


This is an Application Brief and does not contain a detailed Experimental section.

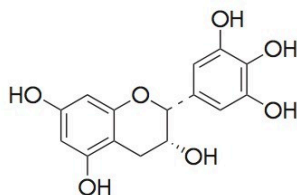
Abstract

This application brief highlights the analysis of catechins using XBridge Phenyl columns.

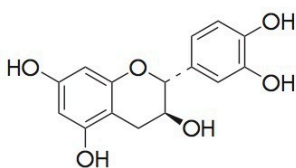
Introduction



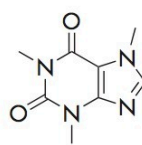
1. Gallic Acid



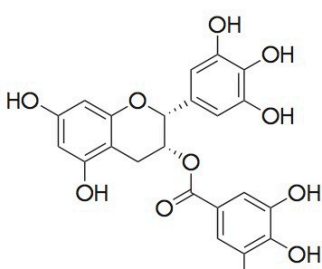
2. Epigallocatechin



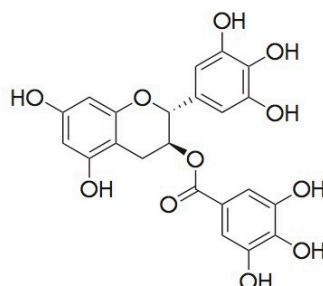
3. Catechin



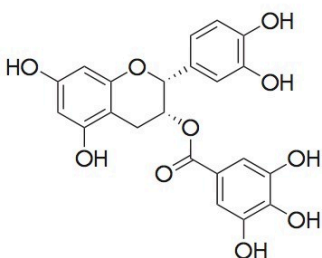
4. Caffeine



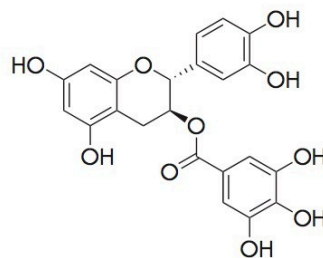
5. Epigallocatechin Gallate



6. Gallocatechin Gallate



7. Epicatechin Gallate



8. Catechin Gallate

Experimental

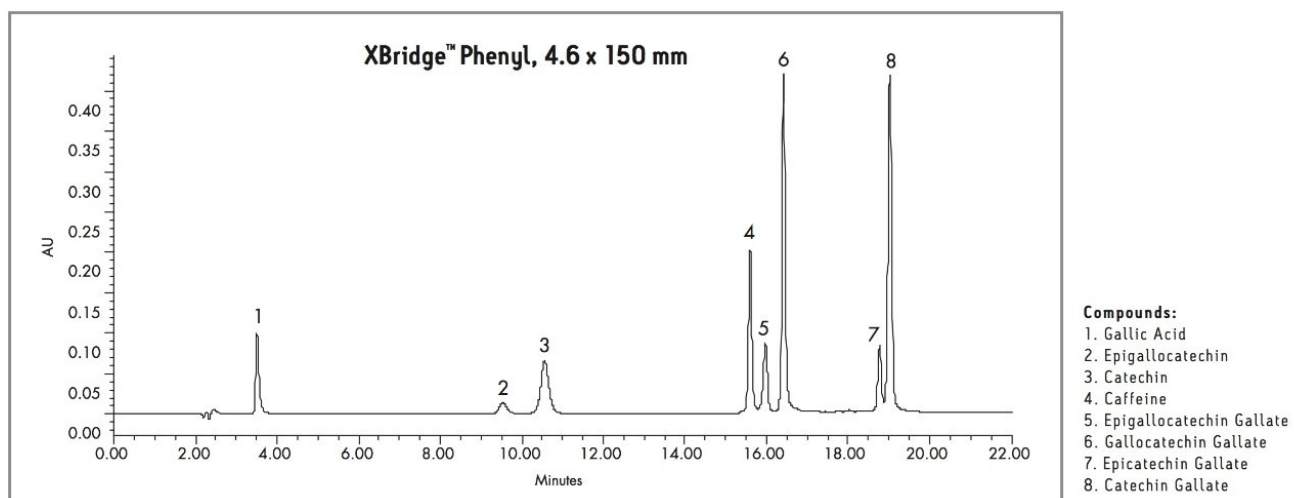
Test Conditions

Columns:	XBridge Phenyl, 4.6 x 150 mm, 3.5 µm p/n: 1860033
Mobile phase A:	H ₂ O
Mobile phase B:	MeOH
Mobile phase C:	0.2% HCOOH in H ₂ O
Flow rate:	0.8 mL/min
Injection volume:	20 µL
Sample:	Gallic Acid (10 µg/mL), Epigallocatechin (50 µg/mL) Catechin (50 µg/mL), Caffeine (10 µg/mL), Epigallocatechin Gallate (50 µg/mL), Galocatechin Gallate (50 µg/mL), Epicatechin Gall (10 µg/mL), Catechin Gallate (50 µg/mL) in H ₂ O/M (85/15)
Column temp.:	30 °C
Sampling temp.:	15 °C
Detection:	UV @ 280 nm
Sampling Rate:	5 points/sec
Filter Response:	0.2
Instrument:	Alliance 2695 with 2996 PDA

Gradient

Time(min)	%A	%B	%C
0.00	84	15	1
8.00	84	15	1
15.00	62	37	1
20.00	62	37	1
26.00	84	15	1
30.00	84	15	1

Results and Discussion



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