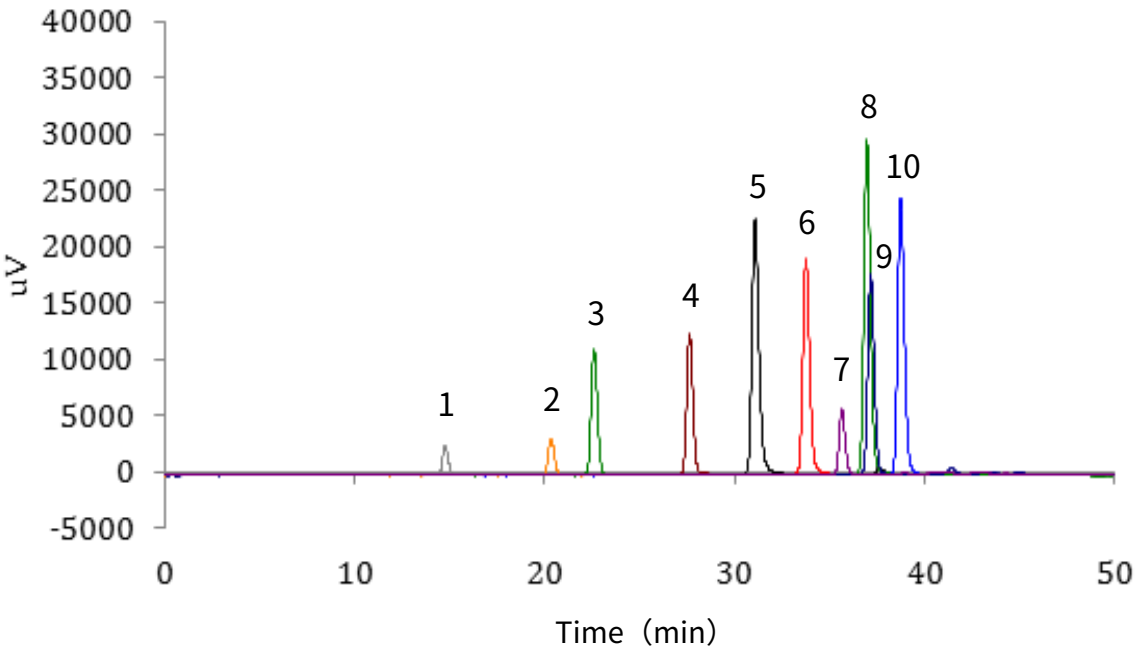
InertSearch™ for LC

Inertsil® Applications

Analysis of Catechins

Data No. LL020-0000

The chromatogram was provided by Assoc. prof. Shigeki Yoshida, Faculty of Life and Environmental Sciences, University of Tsukuba, 1-1-1 Tennodai, Tsukuba, Ibaraki 305-8572, Japan



Conditions

Column	: InertSustain Phenyl (5 µm, 250 x 4.6 mm I.D.)
Column Cat. No.	: 5020-16328
Eluent	: A) CH_3OH B) H_2O A/B = 10/90 - 40 min - 50/50, v/v
Flow rate	: 0.8 mL/min
Col. Temp.	: 25 °C
Detection	: UV 280 nm
Injection Vol.	: 10 µL
Sample	: Standard

Analyte:

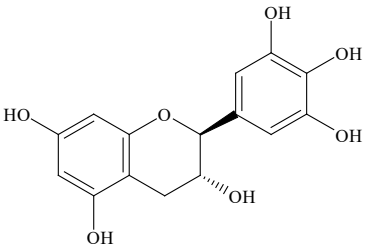
1. Gallocatechin (GC)
2. Epigallocatechin (EGC)
3. Catechin (C)
4. Epicatechin (EC)
5. Epigallocatechin gallate (EGCG)
6. Gallocatechin gallate (GCG)
7. Epigallocatechin-3-O-(4”-O-methyl)gallate (EGCG4”Me)
8. Epicatechin gallate (ECG)
9. Epigallocatechin-3-O-(3”-O-methyl)gallate (EGCG3”Me)
10. Catechin gallate (CG)

(10 mg/mL each)

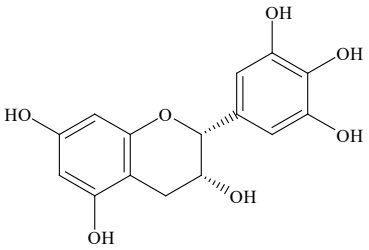
InertSearch™ for LC

Inertsil® Applications

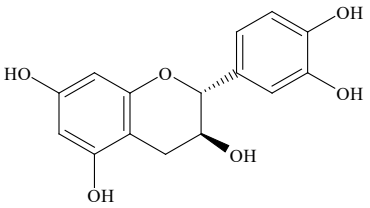
Analysis of Catechins



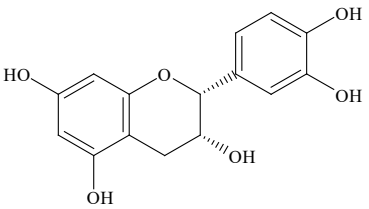
1. Gallocatechin (GC)



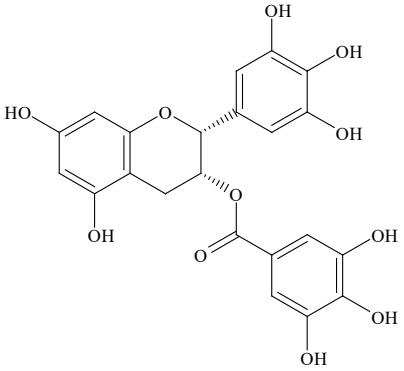
2. Epigallocatechin (EGC)



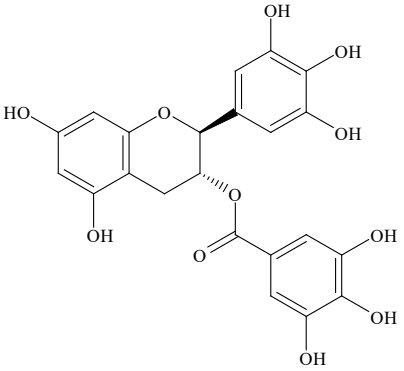
3. Catechin (C)



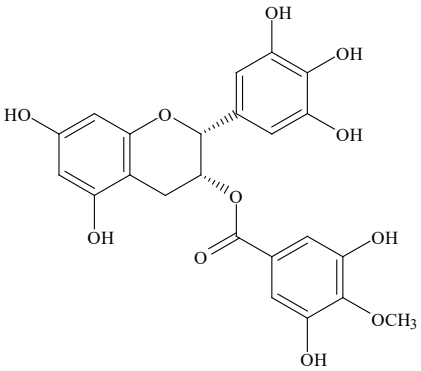
4. Epicatechin (EC)



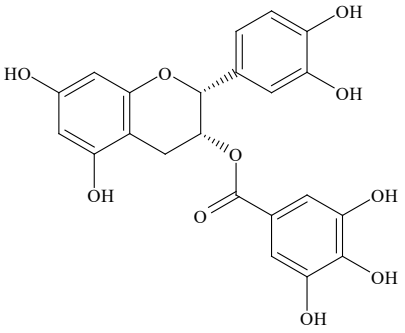
5. Epigallocatechin gallate (EGCG)



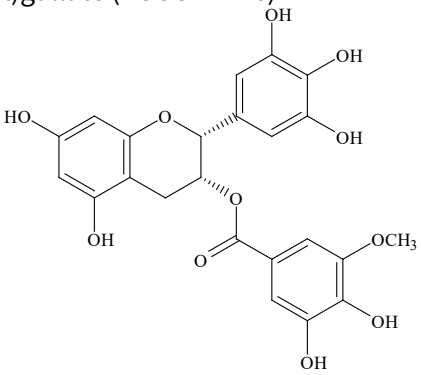
6. Gallocatechin gallate (GCG)



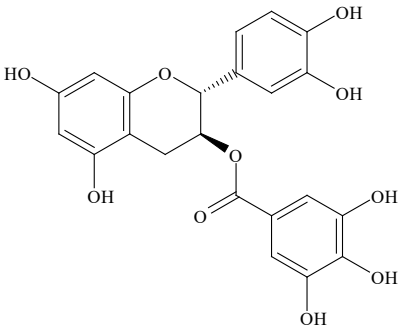
7. Epigallocatechin-3-O-(4” -O-methyl)gallate (EGCG4” Me)



8. Epicatechin gallate (ECG)



9. Epigallocatechin-3-O-(3” -O-methyl)gallate (EGCG3” Me)



10. Catechin gallate (CG)

Structures are created using Chemistry 4-D Draw which is provided by ChemInnovation Software, Inc.

GL Sciences