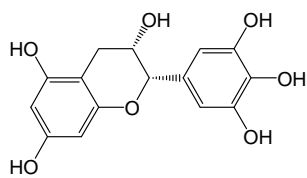


## フラボノイド類

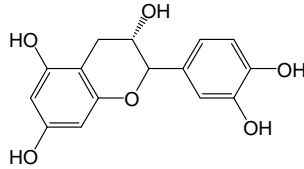
## Flavonoids

フラボノイドは、植物に含まれる成分でカテキン類もこれに含まれます。CAPCELL CORE C<sub>18</sub> S2.7 (2.1 mm i.d. x 150 mm) を用いて、8種のフラボノイドを同時に分析しました。流速は通常の線流速 200 μL/min の 2.5 倍としました。各成分は良好なピーク形状で、5分以内で完全に分離しました (圧力：装置とカラムの分を含め最大 41.6 MPa)。

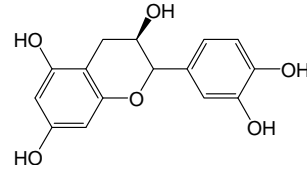
Flavonoids are a group of plant metabolites, to which catechins belong. Eight flavonoids were separated with CAPCELL CORE C<sub>18</sub> S2.7 (2.1 mm i.d. x 150 mm). Raising a linear velocity to 2.5 fold the conventional value, the compounds were completely separated within five minutes with good peak shapes (pressure: 41.6 MPa across the column and the instruments).



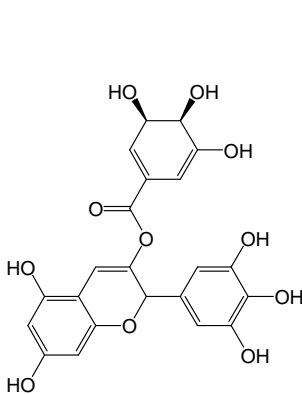
1. エピガロカテキン (10 μg/mL)  
Epigallocatechin (M.W. 306.1)



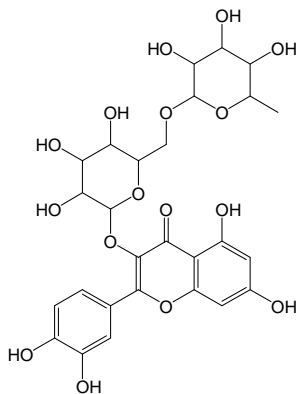
2. カテキン (10 μg/mL)  
Catechin (M.W. 290.1)



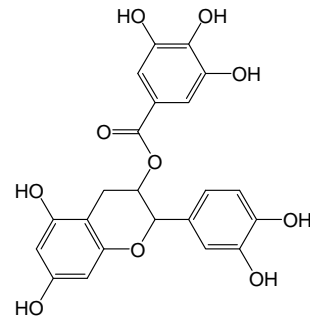
3. エピカテキン (10 μg/mL)  
Epicatechin (M.W. 290.1)



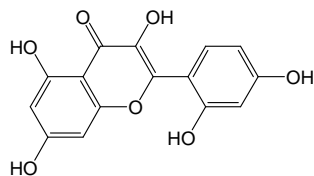
4. エピガロカテキンガレート (10 μg/mL)  
Epigallocatechin gallate (M.W. 458.1)



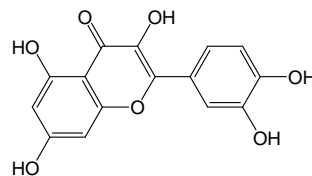
5. ルチン (10 μg/mL)  
Rutin (M.W. 610.5)



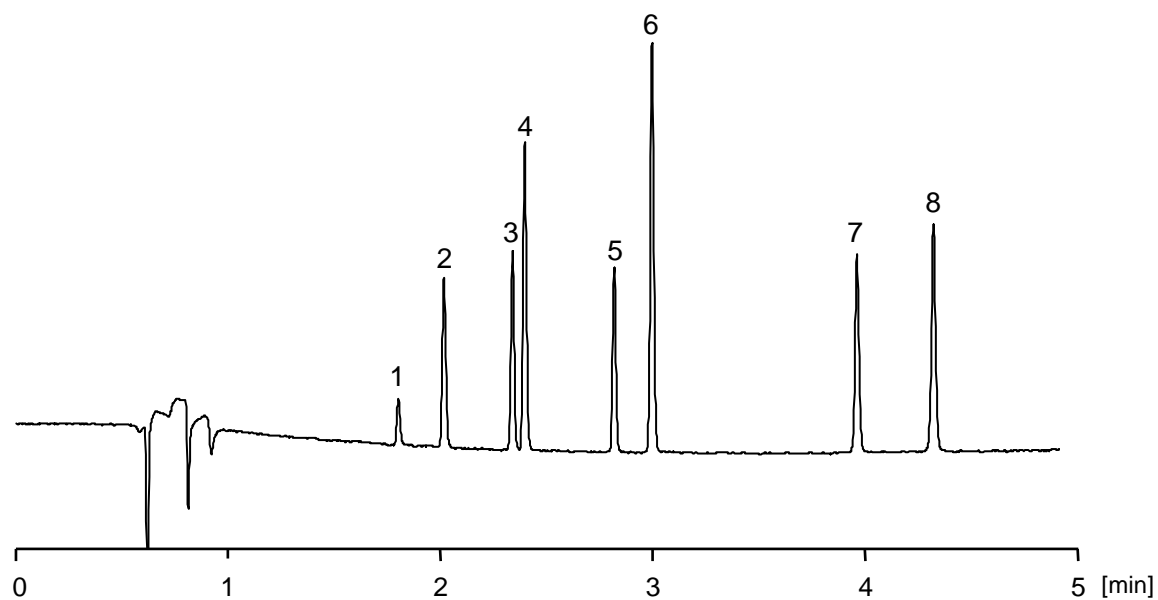
6. エピカテキンガレート (10 μg/mL)  
Epicatechin gallate (M.W. 442.1)



7. モリン (10 μg/mL)  
Morin (M.W. 302.2)



8. ケルセチン (10 μg/mL)  
Quercetin (M.W. 302.2)



**【HPLC Conditions】**

Column : CAPCELL CORE C<sub>18</sub> S2.7 ; 2.1 mm i.d. x 150 mm  
 Mobile phase : A) 0.1 vol% H<sub>3</sub>PO<sub>4</sub>, B) 0.1 vol% H<sub>3</sub>PO<sub>4</sub>, CH<sub>3</sub>CN  
                   B 5 % (0 min) → 40 % (4.5 min) → 5 % (4.6 min) Gradient  
 Flow rate : 500 μL/min  
 Temperature : 40 °C  
 Detection : UV 280 nm  
 Inj. vol. : 3 μL  
 Sample dissolved in : Each standard was dissolved in CH<sub>3</sub>OH at 200 μg/mL. 50 μL of all  
                                   the solutions were added together, and diluted to 1 mL with the  
                                   H<sub>2</sub>O.  
                                   ※ 1 μg/mL = 1 ppm