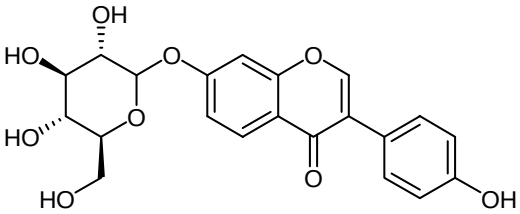
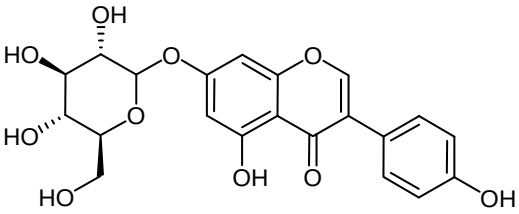
フラボノイド類　Flavonoids

2 種のイソフラボンのダイゼイン，ゲニステインと，それぞれの配糖体及びマロニル体をあわせた合計 6 種類のフラボノイドを CAPCELL CORE C_{18} S2.7（2.1 mm i.d. x 100 mm）を用い同時分析した例を示します.

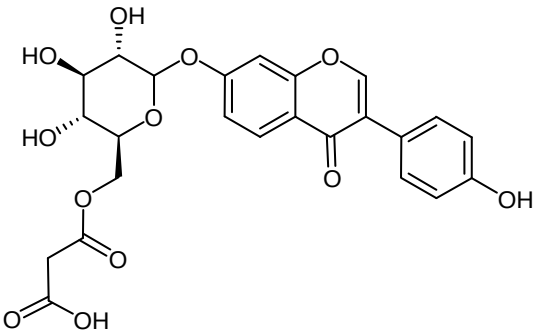
Two kinds of flavonoids, didzein and genistin, and their respective sugar conjugates and malonates (six flavonoids, in total), were simultaneously analyzed with CAPCELL CORE C_{18} S2.7 (2.1 mm i.d. x 100 mm).



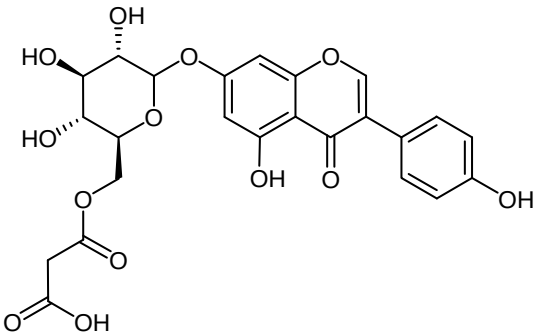
1. ダイジン (50 μg/mL)
Daidzin (M.W. 416.4)



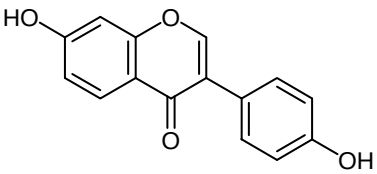
2. ゲニスチン (50 μg/mL)
Genistin (M.W. 432.4)



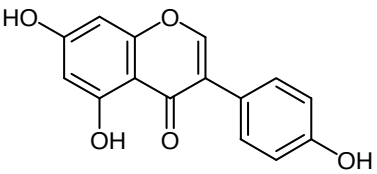
3. マロニルダイジン (50 μg/mL)
Malonyl daidzin (M.W. 502.4)



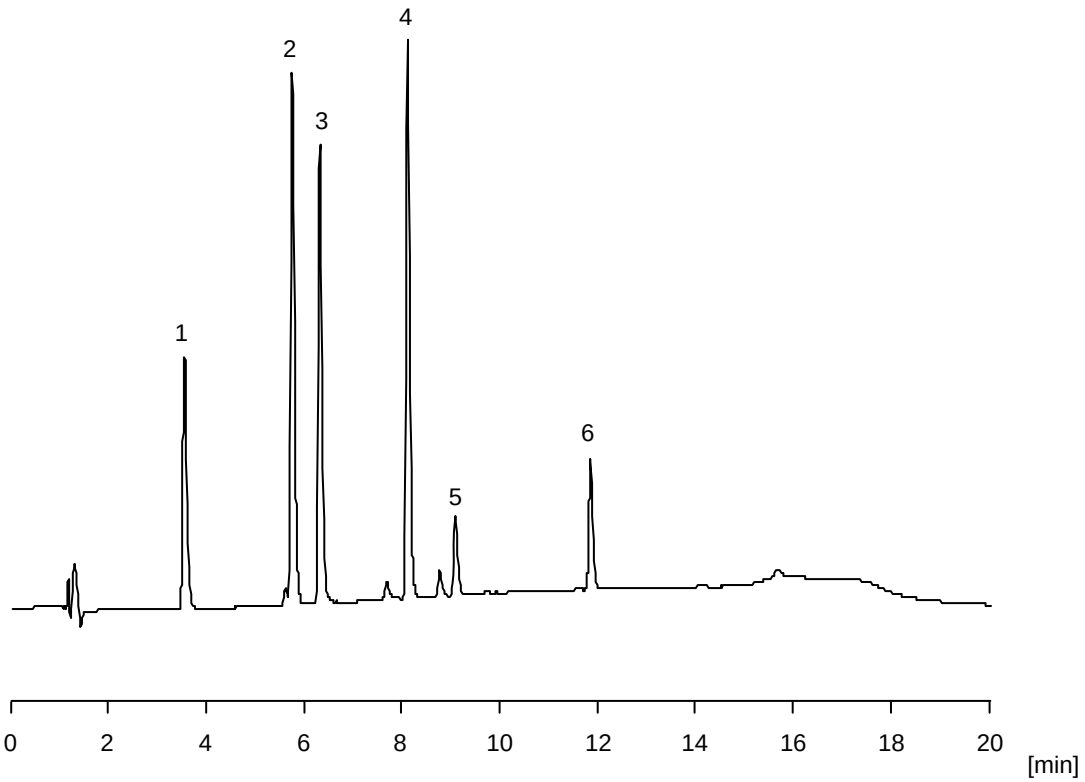
4. マロニルゲニスチン (50 μg/mL)
Malonyl genistin (M.W. 518.4)



5. ダイゼイン (50 μg/mL)
Daidzein (M.W. 254.2)



6. ゲニステイン (50 μg/mL)
Genistein (M.W. 270.2)



【HPLC Conditions】

Column	: CAPCELL CORE C_{18} S2.7 ; 2.1 mm i.d. x 100 mm
Mobile phase	: A) 0.1 vol% H_3PO_4 / CH_3CN = 90 / 10 B) 0.1 vol% H_3PO_4 / CH_3CN = 10 / 90 B 10 % (0 min) → 45 % (15 min) → 10 % (15.1 min) Gradient
Flow rate	: 200 μL/min
Temperature	: 40 ˚C
Detection	: PDA 254 nm
Inj. vol.	: 2 μL
Sample dissolved in	: Each standard compound was dissolved in 70 vol% C_2H_5OH at 1 mg/mL. Equal volume of all the solutions were mixed together, and further diluted with 20 vol% CH_3CN, so that concentration of each compound was 50 μg/mL. ※ 1 μg/mL = 1 ppm