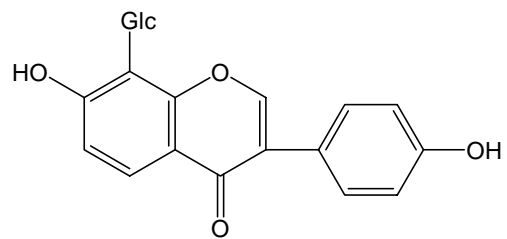
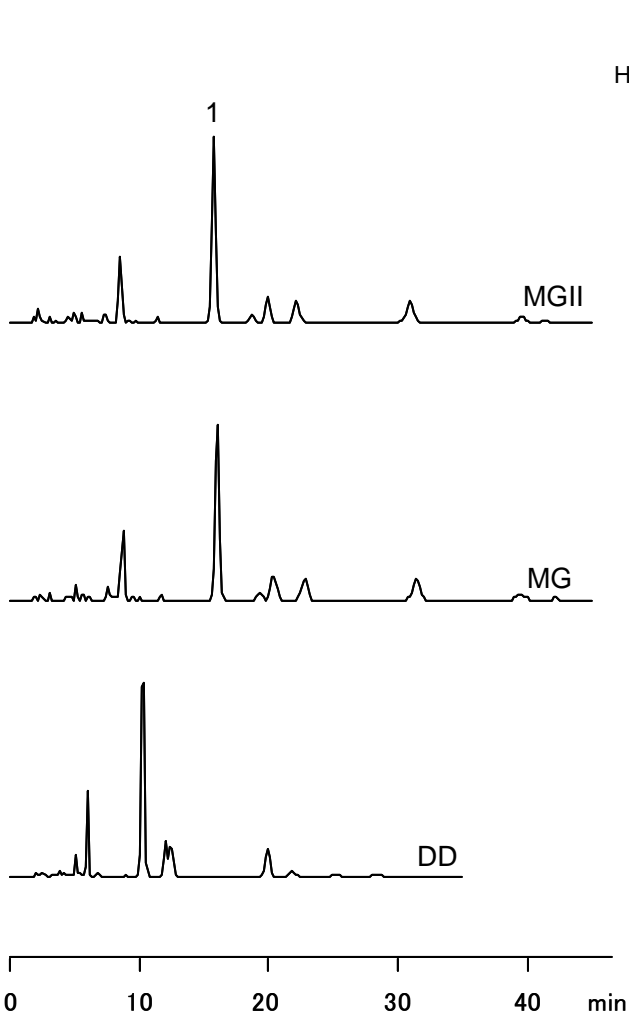


カッコン中プエラリン Puerarin

カッコンは日本薬局方収載の生薬で、イソフラボンの一種であるプエラリンを含んでいます。漢方処方用薬としてかぜ薬，解熱鎮痛薬，消炎薬に配合されています。

Pueraria root is one of the crude medicines listed in The Japanese Pharmacopoeia. It is formulated into many Chinese medicines, such as cold medicine, antipyretic analgesic, and antiphlogistic. Pueraria root contains puerarin, one of the isoflavones.



1. プエラリン
Puerarin (M.W. 416.4)

【HPLC Conditions】

Column : CAPCELL PAK C₁₈ MGII S5 ; 4.6 mm i.d. x 150 mm
CAPCELL PAK C₁₈ MG S5 ; 4.6 mm i.d. x 150 mm
CAPCELL PAK C₈ DD S5 ; 4.6 mm i.d. x 150 mm

Mobile phase : 50 mmol/L NaH₂PO₄ / CH₃CN = 9 / 1

Flow rate : 0.7 mL/min

Temperature : 40 °C

Detection : UV 250 nm

Inj.vol. : 10 μL

Pretreatment : Pueraria root was cut into small pieces, and ground in a mortar with a pestle. 0.3 g of the ground pueraria root was dispersed in a mixed solvent (50 mL, water / methanol = 1 / 1). The dispersion was refluxed on a water bath for 30 min. After cooling it down, the dispersion was filtered with filter paper. The residue was rinsed with the solvent. The filtered liquid and the solvent used for rinsing were added together and adjusted to 100 mL in a volumetric flask. A small amount of the solution was further filtered with a 0.2-μm filter, and introduced to HPLC.

※ 1 μg/mL = 1 ppm

【References】

1) The Japanese Pharmacopoeia, (14th ~ 15th Edition) 第 14 ~ 15 改正, 日本薬局方