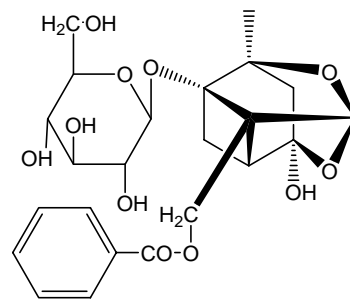
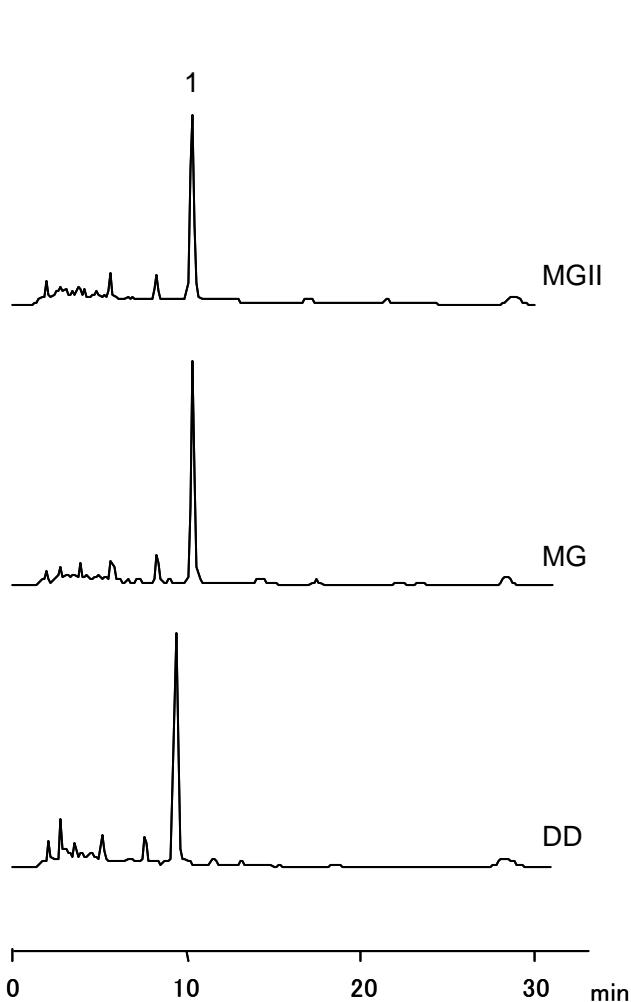


シャクヤク中ペオニフロリン

Paeoniflorin

シャクヤクは日本薬局方収載の生薬です。筋肉のこりなどにも効果があり、鎮痛鎮痙薬、胃腸薬として用いられています。

Peony root is one of the crude medicines listed in The Japanese Pharmacopoeia. It shows a beneficial effect against stiffness, and is formulated into analgesic and antispasmodic agents, and digestive medicines.



1. ペオニフロリン
Paeoniflorin (M.W. 480.5)

【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 : H₂O / CH₃CN / H₃PO₄ = 850 / 150 / 1

Flow rate : 0.8 mL/min

Temperature : 20 °C

Detection : UV 232 nm

Inj. vol. : 10 μL

Pretreatment : Peony root was cut into small pieces, and ground in a mortar with a pestle. 0.5 g of the ground peony root was dispersed in a mixed solvent (50 mL, water / methanol = 1 / 1). The dispersion was refluxed for 30 min. After cooling it down, the dispersion was filtered with filter paper. The residue was rinsed with the mixed solvent. The filtered liquid and the mixed 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