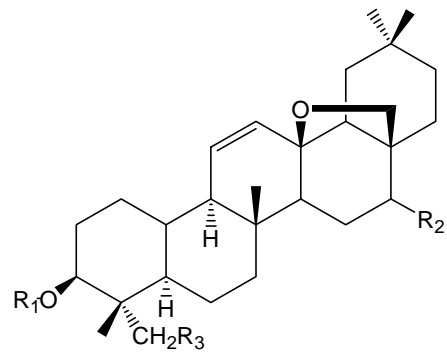
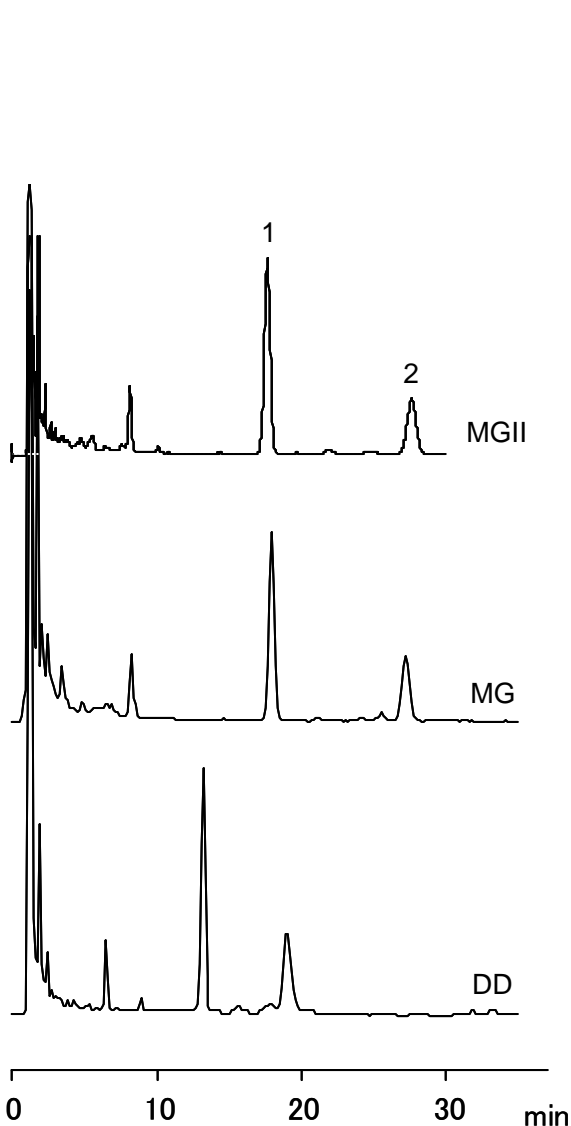


サイコ中サイコサポニン

Saikosaponins

サイコは日本薬局方収載の生薬で、精神神経用薬、消炎排膿薬、痔疾患薬、保健強壯薬の処方に用いられています。有効成分であるサイコサポニンにはステロイド様作用や脂肪肝改善作用など、多くの注目すべき生物活性が報告されています。

Bupleurum root is one of the crude medicines listed in The Japanese Pharmacopoeia. It is used as psychoneurotic agent, drainage drug, hemorrhoidal drug and antiasthenic drug. Saikosaponin, one of the beneficial constituents, has many notable activities, such as steroid action and curing fatty liver.



	R ₁	R ₂	R ₃
サイコサポニンc	Glc—Glc— Rham	β-OH	H
サイコサポニンd	Glc—Glc—	α-OH	OH

1. サイコサポニン c
Saikosaponin c (M.W. 927.1)
2. サイコサポニン d
Saikosaponin d (M.W. 781.0)

【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 = 65 / 35

Flow rate : 1 mL/min

Temperature : R.T.

Detection : UV 254 nm

Inj. vol. : 10 μL

Pretreatment : Bupleurum root was cut into small pieces, and ground in a mortar with a pestle. 1.0 g of the ground bupleurum root was dispersed in a solution (25 mL, 6 w/v% HCl / CH₃OH = 1 / 1). After leaving it for 16 hours at 20 - 25 °C, the dispersion was filtered with filter paper. 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