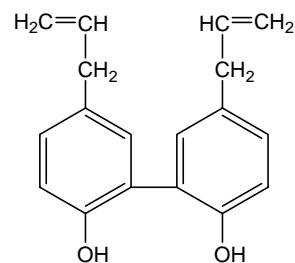
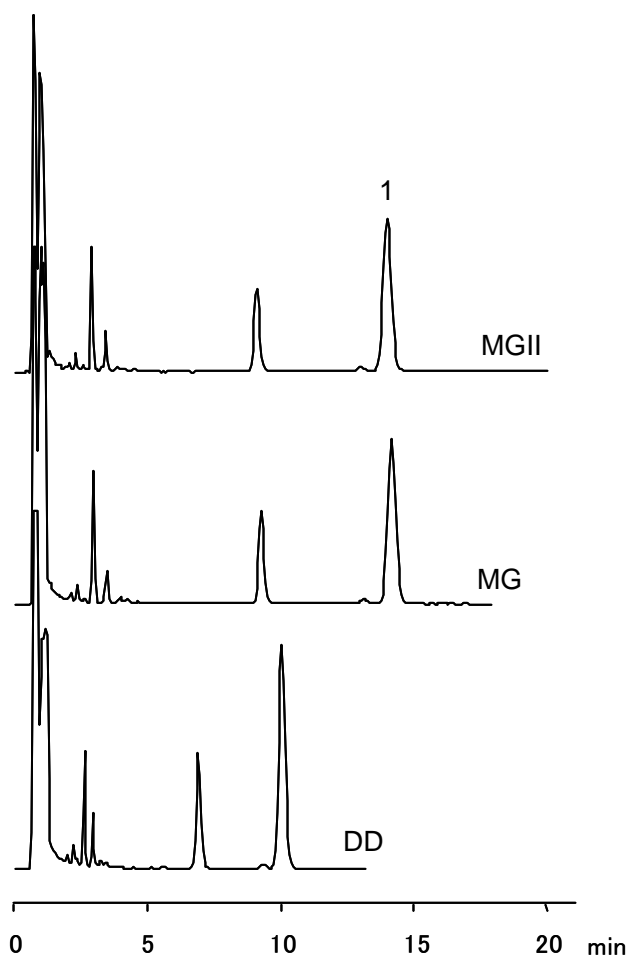


コウボク中マグノロール

Magnolol

コウボクは日本薬局方収載の生薬です。この生薬は、収れん、利尿などの目的で、家庭薬として用いられています。また漢方薬としても腹部膨満感、鎮痛などに対して使用されています。

Magnolia bark is one of the crude medicines listed in The Japanese Pharmacopoeia. It is used as astringent agent, and diuretic agent. Also, it is formulated into Chinese medicines for bloating sensation and pain relief.



1. マグノロール
Magnolol (M.W. 266.3)

【HPLC Conditions】

Column	: CAPCELL PAK C ₁₈ MGII S5 ; 4.6 mm i.d. x 150 mm CAPCELL PAK C ₁₈ MG S5 ; 4.6 mm i.d. x 150 mm CAPCELL PAK C ₈ DD S5 ; 4.6 mm i.d. x 150 mm
Mobile phase	: CH ₃ CN / H ₂ O / CH ₃ COOH = 50 / 50 / 1
Flow rate	: 1.6 mL/min
Temperature	: 20 °C
Detection	: UV 289 nm
Inj. vol.	: 10 µL
Pretreatment	: Magnolia bark was cut into small pieces, and ground in a mortar with a pestle. 0.5 g of the ground magnolia bark was dispersed in a mixed solvent (40 mL, water / methanol = 30 / 70). The dispersion was refluxed on a water bath for 20 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