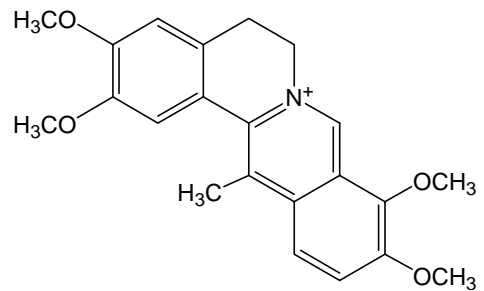
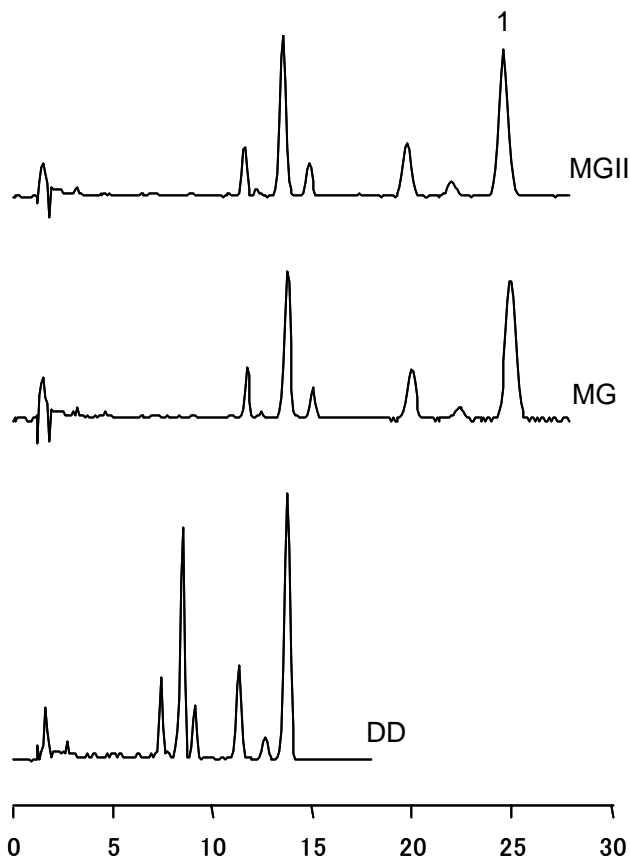


エンゴサク中デヒドロコリダリン Dehydrocorydaline

エンゴサクは日本薬局方収載の生薬で、浄血、鎮痛、鎮痙薬として用いられています。この生薬には10数種のプロトベルベリン型アルカロイド等が含まれています。

Corydalis tuber is one of the crude medicines listed in The Japanese Pharmacopoeia. It is used as hematic, analgesics, and anticonvulsant, and contains more than ten protoberberine-type alkaloids.



1. デヒドロコリダリン
Dehydrocorydaline (M.W. 366.4)

【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 : { NaH₂PO₄ 12H₂O 17.91 g / H₂O 970 mL , pH 2.2 (H₃PO₄) } + NaClO₄
14.05 g H₂O 1000 mL / CH₃CN / Sodium dodecyl sulfate = 1000 mL /
450 mL / 0.20 g

Flow rate : 900 μL/min

Temperature : 40 °C

Detection : UV 340 nm

Inj.vol. : 5 μL

Pretreatment : Corydalis tuber was cut into small pieces, and ground in a mortar with a pestle. 1 g of the ground corydalis tuber was dispersed in a solution (30 mL, 10 w/v% HCl / CH₃OH = 1 / 3). 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 solution. The filtered liquid and the solution used for rinsing were added together and adjusted to 50 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