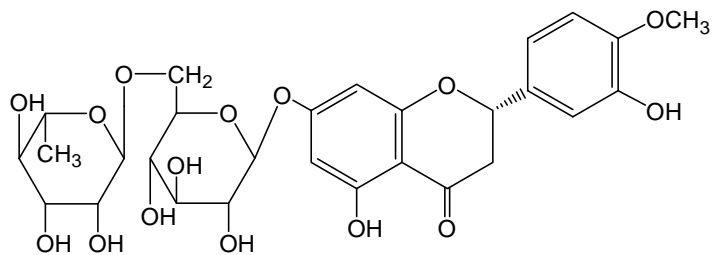


キジツ中ヘスペリジン

Hesperidin

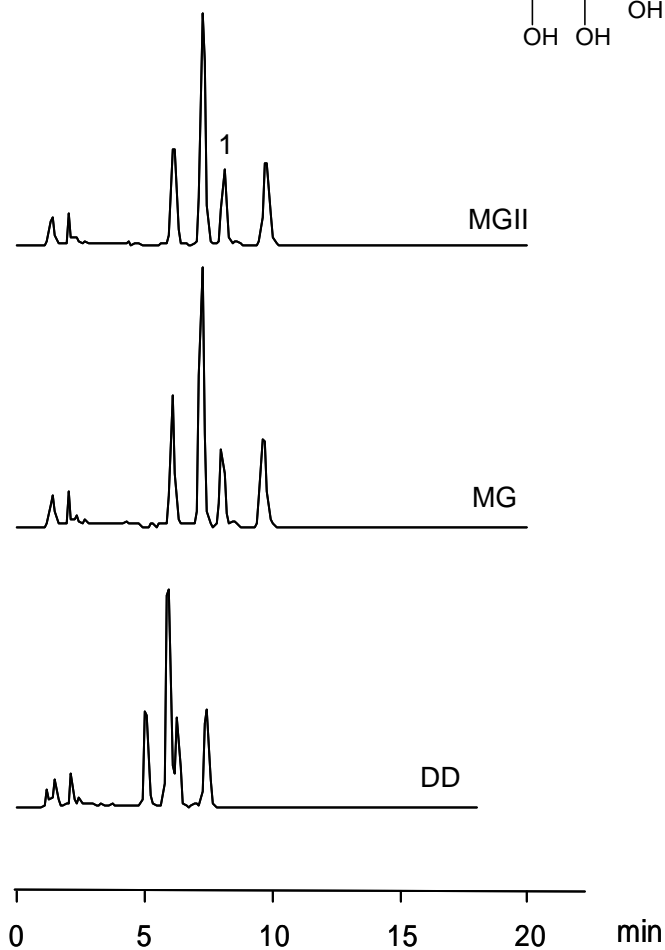
キジツは日本薬局方収載の生薬で、芳香性苦味健胃薬、去痰薬として用いられています。また最近では他薬との組み合わせによる抗アレルギー作用なども報告されています。

Immature orange is one of the crude medicines listed in The Japanese Pharmacopoeia. It is used as aromatic bitter stomachic and expectorant. It was recently reported that the combination of immature orange and other medicines showed antiallergic property.



1. ヘスペリジン

Hesperidin (M.W. 624.6)



[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 : CH₃CN / H₂O / CH₃COOH = 20 / 80 / 1

Flow rate : 1 mL/min

Temperature : R.T.

Detection : UV 280 nm

Inj. vol. : 10 μL

Pretreatment : Immature orange was cut into small pieces, and ground in a mortar with a pestle. 0.5 g of the ground immature orange was dispersed in a mixed solvent (50 mL, water / methanol = 1 / 4). The dispersion was sonicated (30 min) and filtered with filter paper. A small amount of the filtered liquid 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