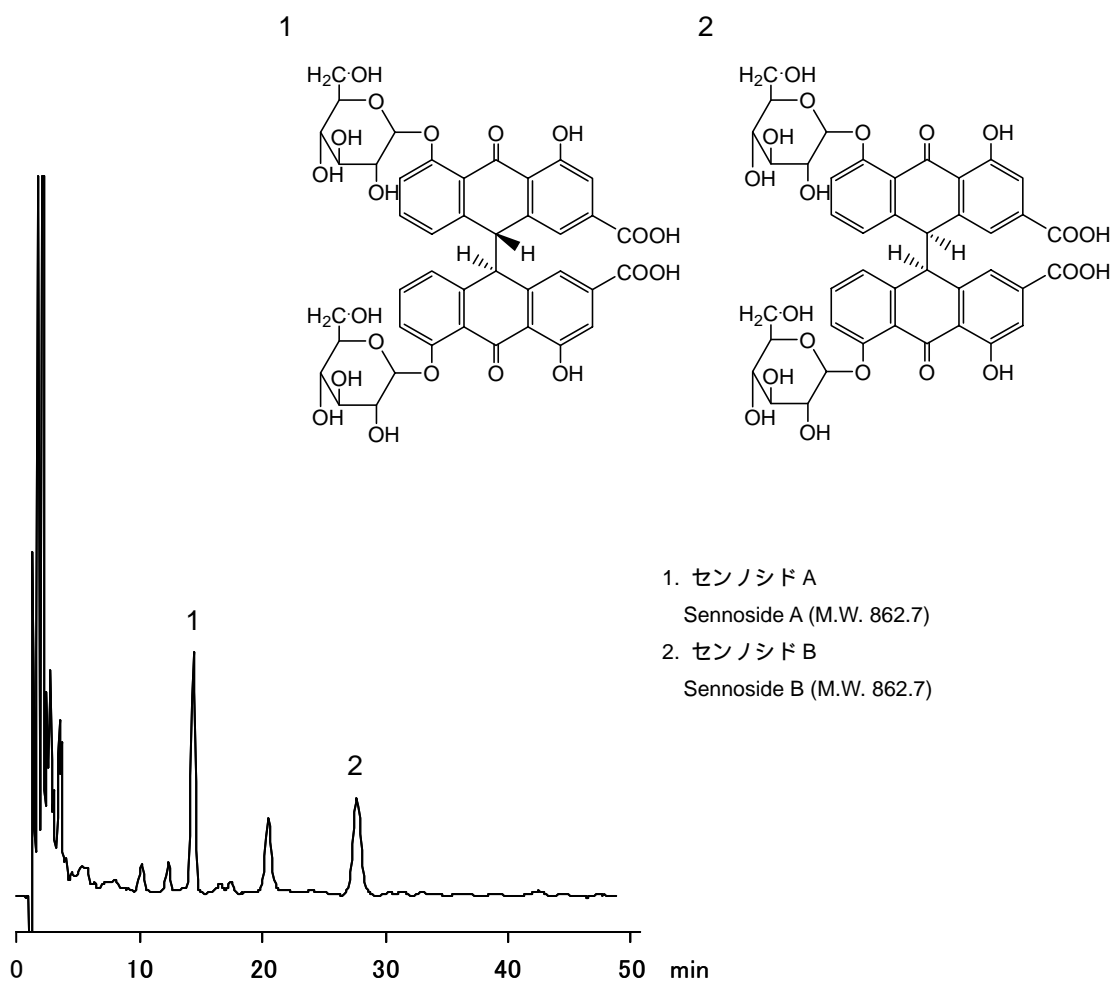


センナ中センノシド

Sennoside

センナは、日本薬局方収載の生薬で、瀉下薬として用いられています。センナに含まれるセンノシド A およびセンノシド B は腸内細菌に代謝され、その代謝物に瀉下効果があることが明らかになっています。

Senna leaf is one of the crude medicines listed in The Japanese Pharmacopoeia. It is used as evacuant. Sennosides A and B, two of its constituents, are metabolized by enterobacteria to show an abstersion effect.



【HPLC Conditions】

Column : CAPCELL PAK C₁₈ MGII S5 ; 4.6 mm i.d. x 150 mm
Mobile phase : {1 mol/L CH₃COONa 3H₂O (adjusted at pH5 with 1 mol/L CH₃COOH) / H₂O = 1 / 9} / CH₃CN / (C₂H₅)₃N = 680 mL / 320 mL / 2.45 g
Flow rate : 1 mL/min
Temperature : 50 °C
Detection : UV 300 nm
Inj. vol. : 10 μL
Pretreatment : Senna leaf was cut into small pieces, and ground in a mortar with a pestle. 0.5 g of the ground senna leaf was dispersed in a mixed solvent (25 mL, water / methanol = 3 / 7). The dispersion was sonicated for 30 min and 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 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