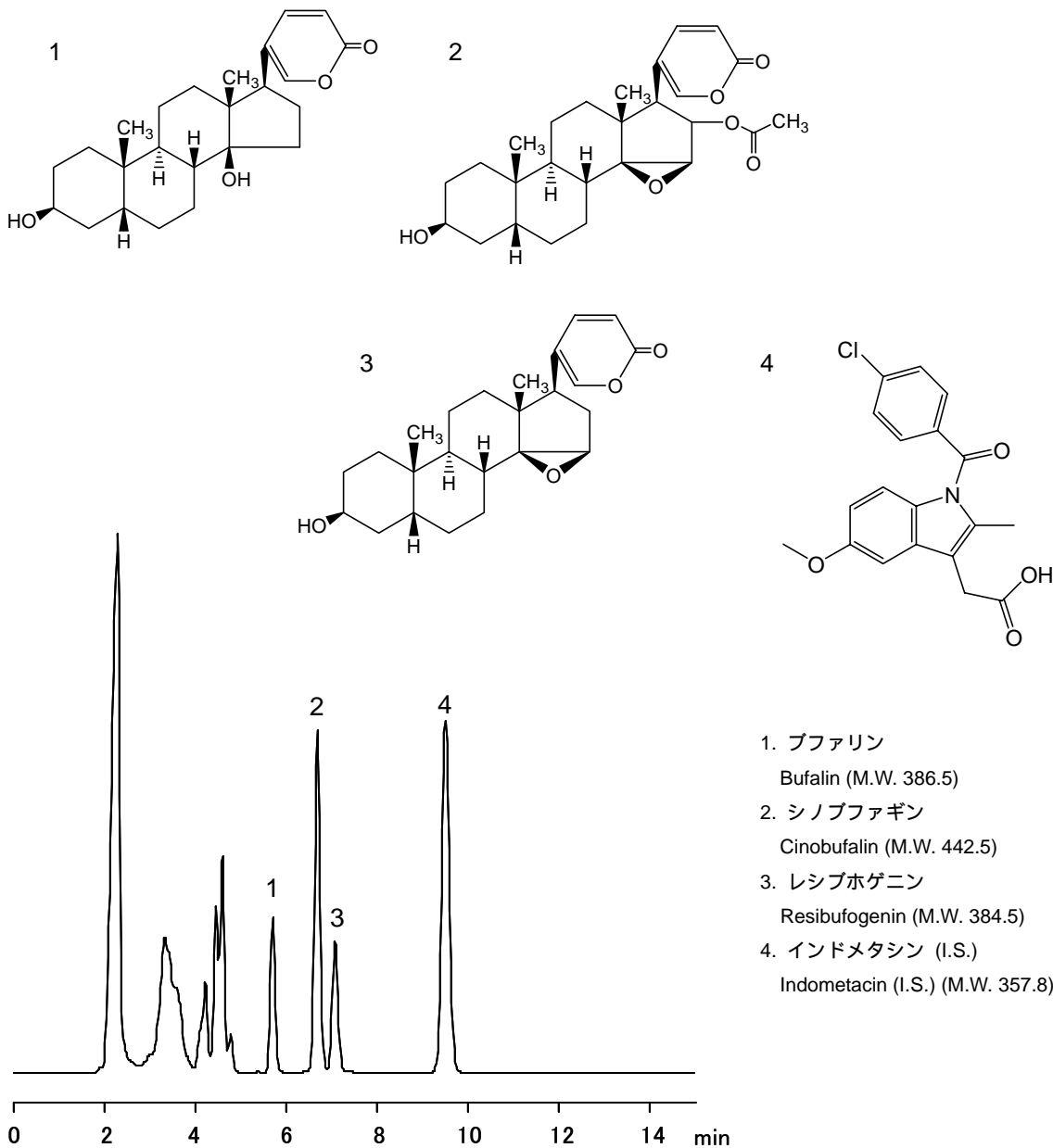


センソ中ブフォステロイド

Bufosteroid

センソは日本薬局方収載の生薬です。センソは古くから強心薬、鎮痛薬、解毒薬として用いられてきました。この生薬の主成分であるブフォステロイドは、体内に蓄積されない、安全性の高い強心薬として注目されています。

Toad venom is one of the crude medicines listed in The Japanese Pharmacopoeia. It has long been used as cardiac restorative, analgesic, or alexipharmic. Bufo steroid, its main component, does not accumulate in the body, and is receiving an attention as a highly safe cardiac restorative.



【HPLC Conditions】

Column : CAPCELL PAK C₁₈ MGII S5 ; 4.6 mm i.d. x 150 mm
Mobile phase : CH₃CN / 0.1 % H₃PO₄ = 60 / 40
Flow rate : 0.5 mL/min
Temperature : 40 °C
Detection : UV 300 nm
Inj. vol. : 10 μL
Pretreatment : Toad venom was cut into small pieces, and ground in a mortar with a pestle. 0.5 g of the ground toad venom was dispersed in a mixed solvent (50 mL, water / methanol = 1 / 1). The dispersion was refluxed for 60 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. The solution was further filtered with a 0.2-μm filter. 10 mL of the filtered solution and 5 mL of the internal standard solution (indometacin, 250 μg/mL in methanol) were added together, adjusted to 25 mL in a volumetric flask with methanol, 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