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## 论文

### 西藏胡黄连化学成分分离和鉴定

尹立子<sup>1</sup>, 欧阳萍<sup>1</sup>, 徐雪<sup>1</sup>, 周丽光<sup>1, 2</sup>, 王大成<sup>1</sup>, 邓旭明<sup>1</sup>

1. 吉林大学畜牧兽医学院, 长春 130062;
2. 吉林省五星动物保健药厂, 长春 130062

摘要:

从西藏胡黄连中分离和鉴定了4个化合物, 其中化合物1是新化合物, 命名为西藏胡黄连酚苷E(Scrophenoside E), 结构为(2-甲氧基-4-乙酰基)苯酚-3-β-D-吡喃葡萄糖基-6-O-(4-β-D-吡喃葡萄糖基)香草酰基-β-D-吡喃葡萄糖苷.

关键词: 西藏胡黄连; 苯乙醇苷; 西藏胡黄连酚苷E

### Isolation and Identification of a New Compound from the Roots of *Picrorhiza Scrophulariiflora*

YIN Li-Zi<sup>1</sup>, OUYANG Ping<sup>1</sup>, XU Xue<sup>1</sup>, ZHOU Li-Guang<sup>1,2</sup>, WANG Da-Cheng<sup>1</sup>, DENG Xu-Ming<sup>1\*</sup>

1. College of Animal Science and Veterinary Medicine, Jilin University, Changchun 130062, China;
2. Five-star Animal Health Pharmaceutical Factory of Jilin Province, Changchun 130062, China

Abstract:

Xizang Huhuanglian, the roots of *Picrorhiza scrophulariiflora* Pennell, is a traditional Chinese Medicine used to treat damp-heat dysentery, jaundice, indigestion, common fever, acute viral hepatitis, and steaming of bone. The scholars of domestic and foreign have studied on the pharmacological effects of the plant, and found that the plant will be one of the most effective preparation in protecting the liver. This plant is rich in terpenoids, iridoid glycosides, phenolic glycosides and phenylethanoid glycosides. These compounds of the plant were isolated via silica gel column, D101 macroporous column, Sephadex LH-20 column, ODS column chromatography and HPLC. The structures of these compounds were identified by spectroscopic methods(NMR, IR, UV and MS) and chemical methods. Four compounds from this plant were obtained. Their names are Scrophenoside E(1) [(6-(4-acetyl-2-methoxyphenoxy)-3,5-dihydroxy-4-(3,4,5-trihydroxy-6-(hydroxymethyl)tetrahydro-2H-pyran-2-yloxy)tetrahydro-2H-pyran-2-yl)methyl-3-methoxy-4-(3,4,5-trihydroxy-6-(hydroxymethyl)tetrahydro-2H-pyran-2-yloxy)benzoate], Coniferin(2), Arbutin(3) and Androsin(4). Scrophenoside E is a new compound. Coniferin, Arbutin and Androsin are three known compounds.

Keywords: *Picrorhiza scrophulariiflora* Pennell; Phenylethanoid glycosides; Scrophenoside E

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通讯作者: 邓旭明, 男, 博士, 教授, 博士生导师, 从事中药活性成分的药理作用研究. E-mail:

xumingdeng@jluhp.edu.cn

作者简介:

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