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**摘要:**

臭灵丹(*Laggera pterodonta*)为菊科四棱峰属植物,是云南民间抗菌消炎的良药。本文对臭灵丹地上部分的化学成分进行了研究。其地上部分用水煎煮提取,硅胶柱色谱和重结晶等方法进行分离纯化。从该植物中分离得到11个化合物,其结构分别鉴定为:6-O- $\beta$ -D-glucopyranosyl-carvotanacetone(1),臭灵丹酸(2),1 $\beta$ -hydroxypterodontic acid(3),pterodontoside A(4),臭灵丹二醇(5),臭灵丹三醇乙(6),5-hydroxy-3,4',6,7-tetramethoxyflavone(7),洋艾素(8),金腰素乙(9),槲皮素(10)和 $\beta$ -谷甾醇(11)。化合物1为新的单萜苷,化合物10和11为首次从该植物中发现。应用滤纸扩散法对该植物中的两个化合物2和5的抑菌活性进行检测,结果表明这两个化合物对金黄葡萄球菌、铜绿假单孢菌、枯草芽孢杆菌、草分支杆菌和环状芽孢杆菌均呈现明显的抑菌活性,但对大肠埃希氏菌均未呈现抑菌活性。

关键词: 臭灵丹 单萜苷 萜类化合物 黄酮类化合物 抗菌活性

**Terpenoids and flavonoids from *Laggera pterodonta***

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**Abstract:**

To study the chemical constituents of aerial parts of *Laggera pterodonta* (DC.) Benth., the air-dried aerial parts of this plant were powdered and extracted with boiling water and purified by silica gel column chromatography and recrystallized. Eleven compounds were obtained from *L.pterodonta*. They were identified as to be 6-O- $\beta$ -D-glucopyranosyl-carvotanacetone (1), pterodontic acid (2), 1 $\beta$ -hydroxy pterodontic acid (3), pterodontoside A (4), pterodondiol (5), pterodontriol B (6), 5-hydroxy-3,4',6,7-tetramethoxyflavone (7), artemitin (8), chrysosplenitin B (9), quercetin (10) and  $\beta$ -sitosterol (11). Compound 1 is a new monoterpene glucoside. Compounds 10 and 11 were isolated from this plant for the first time. Compounds 2 and 5 showed moderate activity against bacteria including *Staphylococcus aureus*, *Pseudomonas aeruginosa*, *Bacillus subtilis*, *Mycobacterium phlei* and *Bacillus circulans* by paper disc diffusion method, while they both displayed no activity against *Escherichia coli*.

Keywords: monoterpene glucoside terpenoids flavonoids antibacterial activity *Laggera pterodonta*

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