



中文标题 检索 药刊检索

石油菜化学成分研究

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作者中文名	作者英文名	单位中文名	单位英文名	E-Mail
任恒春	REN Heng-chun	北京大学 药学院 天然药物及仿生药物国家重点实验室, 北京 100191	State Key Laboratory of Natural and Biomimetic Drugs, School of Pharmaceutical Sciences, Peking University, Beijing 100191, China	
覃日懂	QIN Ri-dong	北京大学 药学院 天然药物及仿生药物国家重点实验室, 北京 100191	State Key Laboratory of Natural and Biomimetic Drugs, School of Pharmaceutical Sciences, Peking University, Beijing 100191, China	
张庆英	ZHANG Qing-ying	北京大学 药学院 天然药物及仿生药物国家重点实验室, 北京 100191	State Key Laboratory of Natural and Biomimetic Drugs, School of Pharmaceutical Sciences, Peking University, Beijing 100191, China	
程伟	CHENG Wei	北京大学 药学院 天然药物及仿生药物国家重点实验室, 北京 100191	State Key Laboratory of Natural and Biomimetic Drugs, School of Pharmaceutical Sciences, Peking University, Beijing 100191, China	
梁鸿	LIANG Hong	北京大学 药学院 天然药物及仿生药物国家重点实验室, 北京 100191	State Key Laboratory of Natural and Biomimetic Drugs, School of Pharmaceutical Sciences, Peking University, Beijing 100191, China	lianghong@bjmu.edu.cn

中文摘要:目的:对民间药材石油菜的化学成分进行研究。方法:用硅胶、葡聚糖凝胶Sephadex LH-20等手段进行分离纯化,并通过¹H、¹³C-NMR、MS等波谱方法鉴定结构。结果:分离鉴定了17个化合物,其中酚酸类6个,分别为苯甲酸(benzoic acid, 1),对羟基苯甲酸(4-hydroxy benzoaldehyde, 2),香豆酸(coumaric acid, 3),原儿茶酚(protocatechuic acid, 4),没食子酸(gallic acid, 5),对羟基苯甲酸(4-hydroxy benzoic acid, 6);含N化合物6个,分别为3-吲哚甲酰(3-indole carboxaldehyde, 7),3-吲哚甲酰(3-indole carboxylic acid, 8),4-甲基-(1,2,3)-三唑-9(1,2,3-triazole, 9),尿嘧啶(uracil, 10),菸酰胺(nicotinamide, 11), (2S, E)-N-阿魏酰胺((2S, E)-N-ferulamide, 12); 5个其他类成分, (+)-去氢催吐萝芙醇 13, 正三十一烷(hentriantane, 14), β-谷甾醇(β-sitosterol, 15), 棕榈酸(palmitic acid, 16), 胡萝卜苷(daucosterol, 17)。结论:所有化合物均为首次从该属植物中分离得到。

中文关键词:冷水花属 石油菜 酚酸 含N化合物 单萜

Chemical constituents of *Pilea cavaleriei* subsp. *cavaleriei*

Abstract: Objective: To investigate chemical constituents from folk herb *Pilea cavaleriei* subsp. *cavaleriei*. **Method:** The compounds were separated and purified by silica gel, Sephadex LH-20 and the like. The structures were identified by spectral methods such as ¹H, ¹³C-NMR and MS. **Result:** Seventeen compounds were isolated and identified as benzoic acid(1), 4-hydroxy benzoaldehyde(2), coumaric acid(3), protocatechuic acid(4), gallic acid(5), 4-hydroxy benzoic acid(6), 3-indole carboxaldehyde(7), 3-indole carboxylic acid(8), 4-methyl-(1,2,3)-triazole(9), uracil(10), nicotinamide (11), (2S, E)-N-ferulamide(12), (+)-dehydrovomifolol(13), hentriantane(14), β-sitosterol(15), palmitic acid(16), daucosterol(17), respectively. **Conclusion:** All compounds were obtained from the genus for the first time.

keywords: *Pilea P. cavaleriei* subsp. *cavaleriei* phenolic acids nitrogenous compounds monoterpene

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