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## 毒根斑鸠菊茎皮的化学成分研究

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中文摘要:目的:研究毒根斑鸠菊茎皮的化学成分。方法:应用硅胶柱色谱、Sephadex LH-20柱色谱、ODS柱色谱、HPLC等各种色谱技术进行分离纯化,用NMR等谱学方法分析确定化合物结构。结果:从毒根斑鸠菊茎皮的95%乙醇提取物中分离得到12个化合物,分别鉴定为:3,5-二咖啡酰基奎宁酸(1),3,4-二咖啡酰基奎宁酸甲酯(2),3,4-二咖啡酰基奎宁酸乙酯(3),3,4,5-三咖啡酰基奎宁酸甲酯(4),豆甾醇(5), $\alpha$ -菠菜甾醇(6), $\beta$ -谷甾醇(7),24-亚甲基-羊毛甾醇(9),11-烯-3 $\beta$ -乙酯(8),没食子酸乙酯(9),邻苯二甲酸二正丁酯(10)。结论:化合物1-10均为首次从该植物中获得。

中文关键词:菊科 毒根斑鸠菊 咖啡酰基奎宁酸酯 甾醇

### Chemical constituents from stem barks of *Vernonia cumingiana*

**Abstract:**The chemical constituents from the stem barks of *Vernonia cumingiana* were investigated. Various chromatographic techniques such as silica gel chromatography, Sephadex LH-20, ODS column chromatography and HPLC were used to isolate and purify the constituents. The structures were elucidated by spectral methods. Twelve compounds were isolated from the 95% ethanol extract and their structures were elucidated as methyl 3,5-dicaffeoylquininate (1), methyl 3,4-dicaffeoylquininate (2), ethyl 3, 4-dicaffeoylquininate (3), methyl 3,4,5-tricaffeoylquininate (4), stigmasterol (5),  $\alpha$ -spinasterol (6),  $\beta$ -sitosterol (7), 24-methylene-lanosta-9(11)-en-3 $\beta$ -acetate (8), ethyl gallate (9), di-n-butyl-phthalate (10), stearic acid (11) and palmitic acid (12). Compounds 1-12 were isolated from this plant for the first time.

**keywords:**Compositae *Vernonia cumingiana* caffeoylquininate sterol

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