

研究报告

鸭舌草中抗氧化活性物质的分离与鉴定

周勇军¹, 徐效华², 乔风云¹, 张建萍¹, 余柳青¹

¹中国水稻研究所水稻生物学国家重点实验室, 杭州 310006;

²南开大学元素有机化学国家重点实验室, 天津 300071

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摘要 采用溶剂萃取法将鸭舌草75%乙醇提取物浸膏分成4个不同组分, 并用碘量法测定其抗氧化活性. 结果表明, 高极性组分正丁醇相具有最强的抗氧化活性, 与天然抗氧化剂茶多酚和化学合成抗氧化剂BHT的抗氧化活性相当, 显著高于对照. 利用柱层析技术对具有高抗氧化活性组分正丁醇相进一步分离纯化, 并确定为豆甾醇葡萄糖甙. 以BHT为对照对羟自由基进行清除试验, 结果表明, 与对照抗氧化剂BHT相比, 它们对羟自由基具有更高的清除率.

关键词 [鸭舌草](#) [抗氧化活性](#) [分离](#) [鉴定](#) [食品安全](#)

分类号

Isolation and identification of an antioxidant from *Monochoria vaginalis*

ZHOU Yong-jun¹, XU Xiao-hua², QIAO Feng-yun¹, ZHANG Jian-ping¹, YU Liu-qing¹

¹State Laboratory of Rice Biology, China National Rice Research Institute, Hangzhou 310006, China;

²State Key Laboratory of Elemento-organic Chemistry, Nankai University, Tianjin 300071, China

Abstract

With solvent extraction, a total of four fractions were separated from 75% alcohol extract of *Monochoria vaginalis*, and their antioxidative activities were measured by iodine method. The results showed that among the fractions, n-butanol fraction exhibited the highest antioxidative activity, which was not only significantly higher than CK (water), but also equivalent to the natural antioxidant tea polyphenols and synthetic antioxidant butylated hydroxyl toluene(BHT). A compound was isolated from the n-butanol fraction by using column chromatography, and identified as stigmasterol 3-O- β -D-glucopyranoside. Its antioxidative activity estimated by the determination of the percentage of scavenged free radicals indicated that this compound exhibited a higher activity than BHT in scavenging free radicals.

Key words [Monochoria vaginalis](#) [antioxidative activity](#) [isolation](#) [identification](#) [food safety](#)

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