

论文

叶下珠中新多酚化合物的分离与鉴定

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摘要:

目的:研究植物药叶下珠(Phyllanthus urinaria L.)的化学成分。方法:用各种色谱技术进行分离纯化,经MS, <sup>1</sup>H, <sup>13</sup>CNMR和HMBC光谱分析鉴定其结构。结果:分得4个多酚类化合物,其结构分别鉴定为1-O-没食子酰基3,6-六羟基联苯二甲酰基-2,4-去羟甲基诃子酰基-吡喃葡萄糖(I),焦棓酚(pyrogallol,II),咖啡酸(cafeicacid,III)和(brevifolincarboxylic acid,IV)。结论:化合物I为一新的鞣花单宁(命名为phyllanthusiin U),I,II,IV为首次从该植物中分得。

关键词: 叶下珠 大戟科 phyllanthusiin U 多酚化合物 鞣花单宁

ISOLATION AND IDENTIFICATION OF A NOVEL POLYPHENOLIC COMPOUND FROM PHYLLANTHUS URINARIA

Chen Yuwu ; Ren Lijuan; Li Keming and Zhang Yongwen

Abstract:

AIM: To study the chemical constituents the medicinal plant Phyllanthus urinaria L. METHODS: The constituents were separated and purified by using various chromatographies. The structural elucidation of the compounds were based on the analysis of their MS, <sup>1</sup>H & <sup>13</sup>CNMR and HMBC spectra. RESULTS: Four polyphenolic compounds were obtained from P. urinaria and their structures were identified as: 1-O-galloyl-3,6-O-OHHDHP-2,4-O-dehydroxymethyl chebuloyl-βD-glucopyranose (I), pyrogallol (II), caffeic acid (III) and brevifolincarboxylic acid (IV). CONCLUSION: Compound I was found to be a novel ellagitannin, named phyllanthusiin U, and II~IV were isolated from this plant for the first time.

Keywords: euphorbiaceae phyllanthusiin U polyphenolic compounds ellagitannin Phyllanthus urinaria L.

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2. 姚庆强;左春旭.叶下珠化学成分的研究[J]. 药学学报, 1993,28(11): 829-835

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