

论文

苦皮藤根皮的¹HNMR指纹图解析

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摘要:

目的对苦皮藤的¹HNMR指纹图进行解析.方法用硅胶柱色谱法分离苦皮藤根皮CGEA的化学成分,鉴定单体化合物的结构并对其进行¹HNMR研究,从而实现苦皮藤根皮的¹HNMR指纹图解析.结果不同来源的苦皮藤样品,其¹HNMR指纹图有很好的重现性和高度的特征性.从其CGEA中分得3个主要成分,经光谱分析鉴定其结构,分别为:angulatinA

(1),angulatinB(2)和angulatinC(3).结论苦皮藤根皮的¹HNMR指纹图可用于其基源鉴定,并主要显示了以上3个化合物的特征共振信号;化合物3为新化合物,化合物2为首次从苦皮藤分离得到.

关键词: 苦皮藤 ¹HNMR指纹图 angulatin C

ASSIGNMENTS OF ¹HNMR FINGERPRINT OF THE ROOT BARK OF *CELASTRUS ANGULATUS*

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Abstract:

AIM To assign the ¹HNMR finger print of the root bark of *Celastrus angulatus*. METHODS Silica gel column chromatography was used to separate the chemical constituents of CGE A of the root bark of *C.angulatus*. The characteristic signals of the 1HNMR finger print were assigned after determining the structures of the compounds isolated from CGE A. RESULTS ¹HNMR fingerrints of the samples of *C.angulatus* collected from different regions showed highly characteristic features and reproducibility. Three compounds predominant in CGE A were isolated and their structures were determined by spectral analysis as: angulatin A (1), angulatin B (2) and angulatin C (3). CONCLUSION Compound 3 is a new compound. Compound 2 was isolated from *C.angulatus* for the first time. The ¹HNMR finger print of CGE A of the root bark of *C.angulatus* showed mainly the characteristic signals of the above three compounds and might be utilized for the original authentication of this plant.

Keywords: ¹HNMR finger print angulatin C *Celastrus angulatus*

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