



吴巧攀, 乔洪翔, 何厚洪, 胡江宁, 吴健, 姚建标, 王如伟. 银杏叶渣中多糖的提取及其抗氧化活性研究[J] 中国现代应用药学, 2014, 31(1):9-13

## 银杏叶渣中多糖的提取及其抗氧化活性研究

Extraction of polysaccharides from residue of Ginkgo Biloba and study on antioxidant activity

投稿时间: 2013-07-30 最后修改时间: 2013-10-28

DOI:

中文关键词: [银杏叶渣](#) [多糖](#) [提取](#) [自由基清除](#) [抗氧化](#)

英文关键词: [residue of Ginkgo Biloba](#) [polysaccharides](#) [extraction](#) [scavenging free radicals](#) [anti-oxidant activity](#)

基金项目: (1) 国家十二五重大新药创制专项(编号: 2011ZX09203-001-18); (2) 浙江省重点实验和中试基地计划项目(编号: 2009E10009)

| 作者                  | 单位                           | E-mail   |
|---------------------|------------------------------|--|
| <a href="#">吴巧攀</a> | <a href="#">浙江中医药大学</a>      | <a href="mailto:pange0923@126.com">pange0923@126.com</a>         |
| <a href="#">乔洪翔</a> | <a href="#">浙江中药与天然药物研究院</a> |  |
| <a href="#">何厚洪</a> | <a href="#">浙江中药与天然药物研究院</a> |  |
| <a href="#">胡江宁</a> | <a href="#">浙江中药与天然药物研究院</a> |  |
| <a href="#">吴健</a>  | <a href="#">浙江中药与天然药物研究院</a> |  |
| <a href="#">姚建标</a> | <a href="#">浙江中药与天然药物研究院</a> |  |
| <a href="#">王如伟</a> | <a href="#">浙江中药与天然药物研究院</a> | <a href="mailto:wangrw@conbagroup.com">wangrw@conbagroup.com</a> |

摘要点击次数: 79

全文下载次数: 91

中文摘要:

目的 研究从银杏叶渣中提取多糖的工艺, 及其抗氧化活性。方法 以多糖提取率为评价指标, 以苯酚-硫酸法检测, 经单因素试验得到最佳工艺, 所得银杏多糖进行还原能力和清除DPPH自由基的试验结果 最佳工艺条件为: 料液比1:7, 提取时间2h, 提取2次, 醇沉浓度90%, 醇沉1h。银杏多糖具有较强还原能力和清除DPPH自由基的能力。结论 该工艺简便可行, 稳定可靠, 适于工业生产, 所得多糖具有较好的抗氧化活性。

英文摘要:

Objective: To develop the optimal extraction technology of polysaccharides from residue of Ginkgo Biloba, and conduct anti-oxidant tests. Methods: Taking the extraction ratio of polysaccharides for evaluation index and detected by phenol-sulfuric acid method, the optimal technology is obtained through single factor experiments. And experiments are taken on reducing activity and scavenging activity

against DPPH. Results: The optimal extraction conditions are material-to-liquid ratio of 1:7, extraction time of 2 hours, 2 times, alcohol precipitation concentration of 90%, alcohol precipitation time of 1 hour. The polysaccharides obtained have a rather good reducing activity and scavenging activity against DPPH. Conclusion: The technology is convenient and workable, stable and dependable, which is suitable for industrial manufacture. The polysaccharides obtained have strong anti-oxidant