

RESEARCH PAPERS

银杏内酯A和B的分离纯化研究

韩金玉, 王华, 常贺英, 褚巧伟

School of Chemical Engineering and Technology, Tianjin University, Tianjin 300072, China

收稿日期 修回日期 网络版发布日期 接受日期

摘要 In this paper, a simple preparative method for isolation and purification of ginkgolides A and B was developed. As starting material, a commercially available standardized ginkgo extract (EGb761, containing 24% flavonoid and 6% terpene trilactones) was used. After a pretreatment step, optimized by the uniform design method, the concentrated intermediate extract with high content of GA and GB (+90%) was separated into the individual terpenes by

preparative liquid chromatography eluted with petroleum ether-ethylacetate. Analysis of products was carried out by means of HPLC-ELSD (evaporative light-scattering detector). The results show that ginkgolides A and B are obtained in higher yield and better purity.

关键词 [ginkgolide A](#) [ginkgolide B](#) [isolation and purification](#) [uniform design](#) [preparative liquid chromatography](#)

分类号

DOI:

Isolation and Preparative Purification for Ginkgolides A and B

HAN Jinyu, WANG Hua, CHANG Heying, CHU Qiaowei

School of Chemical Engineering and Technology, Tianjin University, Tianjin 300072, China

Received Revised Online Accepted

Abstract In this paper, a simple preparative method for isolation and purification of ginkgolides A and B was developed. As starting material, a commercially available standardized ginkgo extract (EGb761, containing 24% flavonoid and 6% terpene trilactones) was used. After a pretreatment step, optimized by the uniform design method, the concentrated intermediate extract with high content of GA and GB (+90%) was separated into the individual terpenes by preparative liquid chromatography eluted with petroleum ether-ethylacetate. Analysis of products was carried out by means of HPLC-ELSD (evaporative light-scattering detector). The results show that ginkgolides A and B are obtained in higher yield and better purity.

Key words [ginkgolide A](#); [ginkgolide B](#); [isolation and purification](#); [uniform design](#); [preparative liquid chromatography](#)

通讯作者:

韩金玉

作者个人主页: 韩金玉; 王华; 常贺英; 褚巧伟

扩展功能

本文信息

▶ [Supporting info](#)

▶ [PDF](#) (1661KB)

▶ [\[HTML全文\]](#) (0KB)

▶ [参考文献](#)

服务与反馈

▶ [把本文推荐给朋友](#)

▶ [加入我的书架](#)

▶ [加入引用管理器](#)

▶ [引用本文](#)

▶ [Email Alert](#)

▶ [文章反馈](#)

▶ [浏览反馈信息](#)

相关信息

▶ [本刊中包含“ginkgolide A”的相关文章](#)

▶ [本文作者相关文章](#)

· [韩金玉](#)

· [王华](#)

· [常贺英](#)

· [褚巧伟](#)