

论文

RAPD方法在细辛类药材鉴别研究中的问题及其对策

黄璐琦;王敏;周长征;李念华;何希荣;杨滨

中国中医研究院中药研究所生药室,北京100700; *北京中医药大学中药学院药用植物教研室,北京100029; **中国科学院植物研究所,北京100044

摘要:

以细辛类药材的鉴别为例,对RAPD方法在药材鉴别中所存在的问题进行了探讨,结果表明药材DNA模板浓度,降解程度及药材的产地均对RAPD产物有不同程度的影响,从而提出选择适宜的药材DNA模板浓度,筛选合适的引物和采用对照组聚类分析等方法来消除上述因素的影响,进而讨论了RAPD方法在药材鉴别上的适用范围。

关键词: 多态性分析 细辛类药材

PROBLEMS AND SOLUTIONS IN THE USE OF RAPD TO THE IDENTIFICATION OF THE CHINESE DRUGS "XI-XIN" (HERBA ASARI) AND ITS SUBSTITUTES

Huang Luqi; Wang Min; Zhou Changzheng; Li Nianhua ; He Xirong and Yang Bin

Abstract:

The use of random amplified polymorphic DNAs (RAPD) on the identification of crude drugs has a few special problems, e.g., the influence of the degree of degradation of DNA templates on the amplified products, the reliability of results by one or two primers and the application range of RAPD, etc., so the problems were discussed through researches on Herba Asari. In this experiment, the DNA of twenty-one samples from different locations and collected at different time were extracted. The suitable concentrations of DNA templates and the suitable primers were selected. After this, the DNA of these samples were amplified by RAPD. The results showed that the concentration and the degree of degradation of DNA templates, and the different sources of crude drugs affected the result of RAPD assay. Some suggestions were made to solve these problems, such as the selection of DNA templates concentration, the screening of suitable primers, and the use of contrast groups and cluster analysis. Furthermore, the application range of RAPD to the identification of crude drugs was discussed. All of these will provide the guide to the use of RAPD for the identification of crude drugs.

Keywords: Herba asari Random amplified polymorphic DNAs

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