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基于RAPD标记的SCAR分子标记技术鉴定川牛膝及其混淆品

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中文摘要:目的: 基于RAPD标记开发SCAR标记·为川牛ټ及其混淆品鉴定提供有效方法。 方法: 建立了收集于四川天全、宝奖、会理、金口河等地的19个牛蒜种群(包括川牛ټ及其混淆品红牛蒜、杯牛膝)的RAPD指纹阻谱,从中找到能有效区分上这材料的多态性清滞于300.F500进行克隆与测序:根据测片结果设计之对特异引物对19份材料进行PCR扩增。 结果 "引物SC-320能稳定地区分川牛膝与杯牛排引物SC-489 的能稳定地区分别中膝与在牛膝24岁引物结合能快速准确地鉴定川牛膝、红牛藤和杯牛膝。 结论:建立了鉴定川牛藤及其混淆品的SCAR标记技术体系

中文关键词:川牛膝 混淆品 RAPD标记 SCAR标记

Authentification of Radix Cyathule and its adulterantsbased on SCAR markers

Abstract: Chuanniuxi (Radix Cyathule) is one of the most important geo-herb in Sichuan province, which adulterants are Hongniuxi (Cyathula capitata) and Huainiuxi (Achyranthes bidentata). In this paper Chuanniuxi and its adulterants were identified by SCAR markers. Nineteen populations from Tianquan, Baoxin, Hulli and Jinkouhe were collected and their RAPD fingerprints were established. Based on the RAPD patterns, two polymorphic bands F300 and F50 were selected, recycled, cloned and sequenced. According to the senences two pairs of sequence characterized amplified regions (SCAR) primers were designed and used to amplify all materials to prove the efficiency of identification of the different populations. Chuanniuxi and Huiniuxi could be distinguished by the primer SC-320, Chuanniuxi and Hongniuxi could be distinguished by the primer SC-495. Combining the two SCAR markers, Chuanniuxi, Hongniuxi and huainiuxi could be identified effectively and quickly.

keywords:Radix Cyathule promiscuous medicinal materials RAPD marker SCAR marker

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