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研究简报

甘草种子SCAR标记的建立

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[1]中国医学科学院中国协和医科大学药用植物研究所,北京100094 [2]石河子大学,新疆石河子832003 摘要:

甘草是一种常用中药材,药典记载的甘草药材来源植物有三种,即: 乌拉尔甘草、光果甘草和胀果甘草。目前人工 > 参考文献 栽培用的甘草种子有些来自人工培育,有些来自野生收集,因此容易造成种子的混杂。通过将收集到的5种甘草种 子进行RAPD(随机扩增多态性DNA)PCR扩增,对RAPD电泳图谱上具有差异性的条带进行克隆测序,根据序列 信息设计序列特异的引物,建立甘草种子的SCAR(序列特异的扩增区域)标记。初步建立了几种甘草种子的 SCAR标记: GC1F / GC1R, GC2F / GC2R, 和GC3F / GC3R。

关键词: 甘草 种子 RAPD SCAR

Establishment of Sequence Characteristic Amplified | Region Markers of Glycyrrhiza Seeds

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Abstract:

Glycyrrhiza is a common used traditional Chinese medicine. There are Glycyrrhiza uralensis, Glycyrrhiza infleta and Glycyrrhiza glebra three plants, according to codex. The manual cultivation of Glycyrrhiza is a main resource of medicinal materials, and the seeds of these plants come from cultivation or collection from wild plants. Therefore, it is very easy to mix the seeds. In this research, RAPD PCR were carried out on the collected 5 species of Glycyrrhiza seed. Cloning and sequencing were used for the specific bands on the random amplified polymorphism DNA PCR profiles, and then according to the sequences specific primers were designed for sequence characteristic amplified region (SCAR) marker. The result showed that three primers pairs combbination, GC1F/GC1R, GC2F/ GC2R, and GC3F/GC3R, could successfully applied for Glycyrrhiza seed identification.

Keywords: Glycyrrhiza seed RAPD SCAR

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