

研究论文

甘蔗 (*Saccharum officinarum* L.) 品种遗传差异的AFLP分子标记分析

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摘要 采用AFLP技术, 从64对引物中筛选出5对带型分布均匀、多态性丰富且分辨能力强的引物, 对两个在生产上广泛推广应用的甘蔗品种的AFLP指纹图谱进行分析, 计算了两品种间的遗传相似性和遗传距离。结果表明, 5对引物在2个甘蔗品种间均存在显著差异, 其中多态性位点占总扩增位点的10.2%, 区分率达100%。这对应用AFLP技术鉴定甘蔗品种的真伪提供了依据。本文还对甘蔗AFLP分析体系的关键技术以及银染的安全性和可靠性进行了讨论。

关键词 [甘蔗 \(*Saccharum officinarum* L.\)](#) [AFLP](#) [指纹图谱](#) [品种鉴定](#)

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AFLP Molecular Analysis of Genetic Difference between Cultivars in Sugarcane (*Saccharum officinarum* L.)

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Abstract 5 pairs of AFLP primers from 64 pairs were selected, which had rich polymorphism. The genetic diversity of two sugarcane varieties was analyzed with the fingerprinting mapped by the 5 primer pairs, and the genetic similarity and distance were estimated. The results showed that there were distinct differences between the two cultivars. The rate of the polymorphism bands was 10.2%, and the rate of identification was 100%. The key techniques of AFLP analysis system applied in sugarcane, the reliability and safety of silver staining were also discussed.

Key words [Sugarcane \(*Saccharum officinarum* L.\)](#); [AFLP](#); [Fingerprint](#); [Cultivar identification](#)

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