

研究快报

乌骨鸡蛋用系群体遗传结构的微卫星标记分析

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摘要

用20对微卫星引物对丝羽乌骨鸡BM、BF两个蛋用新品系的基因组DNA进行扩增, 应用多重PCR结合全自动电泳技术分析群体遗传结构。试验结果表明: 18个微卫星标记表现出丰富的多态性, 每个标记平均检测到7.444个等位基因(3~15个), 平均观测杂合度为0.3962, 平均预期杂合度为0.7301, 平均多态信息含量为0.669。本研究的标记检测结果比以前的研究报道值要高, 说明全自动电泳分析技术比聚丙烯酰胺凝胶电泳结合银染法检测电泳结果的传统方法要精确, 能更好地用于群体遗传结构的分析。

关键词 [乌骨鸡; 微卫星标记; 群体遗传结构](#)

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The Population Genetic Structure Analysis via Microsatellite Loci in New Silkies Laying Breeds

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Abstract

Twenty microsatellite markers selected from the chicken GENBANK were analyzed for polymorphism in two new Silkies laying breeds. Allele frequencies were tested by the auto scan on ABI 3100~Avant Genetic Analyzer. The results suggested that the optimization test of multiplex PCR was successful and 18 pairs of microsatellite DNA markers were polymorphic. The average number of alleles detected by a pair of primers was 7.444. The average value of PIC was 0.669. The average observation population heterozygosity of the 18 markers was 0.3962, and the average expected population heterozygosity of the 18 markers was 0.7301. The number of bands tested on the auto scan was higher than that based on band presence or absence on gel, thus it was more suitable for genetic population analysis.

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Key words [Silkies; microsatellite markers; population genetic structure](#)

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