

乌羊和小香羊的RAPD分析 RAPD Analysis to Wu Goats and Small-Xiang Goats

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摘要 用40条多态引物对乌羊、小香羊、南江黄羊、黑山羊、川东白山羊、波尔山羊和马头山羊7个品种(或群体)进行RAPD分析,其中28条引物扩增出多态性谱带,并用于进一步对12只乌羊个体和12只小香羊个体基因组进行扩增.扩增产物以1.5%琼脂糖凝胶(含0.5μg/ml溴化乙锭)电泳分离.Nei氏公式计算品种间的遗传距离指数和品种内的遗传相似指数,NJ法构建系统聚类图.结果表明:乌羊和川东白山羊间的遗传距离最小,亲缘关系较近,而小香羊与各品种间的遗传距离都较大,亲缘关系较远.乌羊群体及小香羊品种都具有一定的遗传稳定性。

Abstract:A total of 40 primers generated polymorphic loci were used in random amplified polymorphism DNA(RAPD)analysis in seven goat breeds(or populations)including Wu goat,Small-Xiang goat,Nanjiang Brown goat,Black goat,Chuangdong white goat,Boer goat,Matou goat.28 of them were selected for further amplification in individuals of 12 Wu goats and 12 Small-Xiang goats because of their different amplified patterns among seven goat breeds.Amplification products were separated by 1.5% agarose gel(contain 0.5μg/ml ethidium bromide)electrophoresis.Genetic distance indexes among breeds and genetic similarity indexes within breed were calculated by Nei,and the phylogenetic tree was constructed by NJ method.The results indicate that the genetic distance index between Wu goat population and Chuandong white goat breed is smallest,therefore Wu goat population is closely related to Chuandong white goat breed.While the genetic distance indexes between Small-Xiang goat breed and any other goat breeds are all big,so Small-Xiang goat breed is far related to any other goat breeds.The results also indicate that the genetic stability either among the Wu goat population or the Small-Xiang goat breed reaches some extent.

关键词 [乌羊](#) [小香羊](#) [RAPD](#) Key words [Wu goat](#) [small-xiang goat](#) [RAPD](#)

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