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简报

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德宏水牛乳和荷斯坦牛乳中上皮粘蛋白的遗传多态性

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Genetic Polymorphism of Epithelial Mucin (MUC1) in the Milk of Dehong Buffalo and Holstein Cow in Yunnan

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摘要

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摘要 本文采用SDS-PAGE对56头云南德宏水牛和47头中国荷斯坦牛的乳上皮粘蛋白MUC1进行了基因分型。结果表明: 德宏水牛乳和荷斯坦牛乳中的MUC1均呈现多态性。德宏水牛乳中共发现3种分子量分别为208, 185, 168 kD的电泳谱带, 命名为A, B和C等位基因; 荷斯坦牛乳中共发现5种分子量分别为196, 191, 188, 176, 159 kD的电泳谱带, 命名为D, E, F, G和H等位基因。德宏水牛乳MUC1基因座A, B, C 3个等位基因频率分别为0.2232, 0.3304和0.4464, 群体期望杂合度为 0.6475; 荷斯坦牛乳MUC1基因座D, E, F, G, H 5个等位基因频率分别为0.4681, 0.0106, 0.2128, 0.2553和0.0532, 群体期望杂合度为0.674。结果揭示德宏水牛乳MUC1蛋白与荷斯坦牛乳MUC1蛋白遗传组成存在显著差异, 该座位遗传多态性较丰富。

关键词: 水牛 荷斯坦牛 乳 上皮粘蛋白

Abstract: In the present study, the epithelial mucin (MUC1) was assayed by using SDS PAGE in individual milk samples from 56 Dehong buffalo and 47 Holstein cows. The results showed that there were polymorphisms of MUC1 in two populations. Three MUC1 SDSPAGE bands (baptized allele A, B and C) which were 208, 185 and 168kD, respectively, were found in Dehong buffalo according to their molecular weight, whereas five MUC1 SDSPAGE bands (baptized allele D, E, F, G and H) which were 196, 191, 188, 176 and 159kD, respectively, were found in Holstein cows. Allele frequencies for the allele A, B and C were 0.223 2, 0.3304 and 0.446 4, respectively, and the expected heterozygosity was 0.6475 in Dehong buffalo, and that allele frequencies for the allele D, E, F, G and H were 0.468 1, 0.0106, 0.2128, 0.2553 and 0.053 2, respectively, and the expected heterozygosity was 0.674 7 in the Holstein cows. The results indicated that the genetic composition at MUC1 locus in Dehong buffalo is different from that of Holstein cow, and there is rich variation at MUC1 locus in Dehong buffalo population.

Keywords: buffalo Holstein cow milk MUC1

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