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Original Articles

A PCR-RFLP Test to Detect Allelic Variants of the Bovine Kappa-Casein Gene

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Abstract

Point mutations in exon IV of bovine kappa-casein gene (κ Cn, CASK, CSN3) determine nine allelic variants (A, B, C, E, F, G, H, I, and A₁) for the gene. These variants are associated with major differences in composition and manufacturing properties of milk (i.e., cheese yield). A PCR-RFLP test was developed in order to distinguish the different alleles. Polymorphisms are detected by digestion with the endonucleases HindIII, HaeIII, and MaeII followed by electrophoresis in agarose gels stained with ethidium bromide.

Twenty alleles were identified for the A, B, and E variants of the bovine kappa-casein gene.

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