

Grażyna Sender, Maria Dymnicka, Agnieszka Korwin-Kossakowska,
Barbara Gralak, Ewa Arkuszewska, Andrzej Łozicki

Association of lactoferrin gene polymorphism with milk yield of Polish Holstein-Friesian cows

S u m m a r y

The objective of this study was to investigate the association of lactoferrin genotypes with milk yield in cattle. Test - day milk samples were collected monthly. The polymorphism of lactoferrin gene was identified in blood samples collected from 516 cows in three herds. Polymorphism of lactoferrin gene was identified by PCR-RFLP method. Frequency of alleles A and B was 0.81 and 0.19 respectively. Genotype AA was associated significantly ($P \leq 0.01$) with increased of milk yield. The presence of BB genotype was associated with decreased of milk yield. Genotype BB of lactoferrin gene, associated with resistance to mastitis was at the same time unfavourably associated with lower milk yield.