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[home](#) [page](#) [about us](#) [contact](#)

[us](#)

Table of
Contents

**VETMED
2015**

**VETMED
2014**

**VETMED
2013**

**VETMED
2012**

**VETMED
2011**

**VETMED
2010**

**VETMED
2009**

**VETMED
2008**

**VETMED
2007**

**VETMED
2006**

**VETMED
2005**

**VETMED
2004**

**VETMED
2003**

**VETMED
2002**

**VETMED
2001**

**VETMED
Home**

**Editorial
Board**

For Authors

- **Authors
Declaration**
- **Instruction
to Authors**
- **Guide for**

Authors

- Publication Fee
- Submission

Subscription

Veterinarni Medicina

Associations between bovine lactoferrin gene polymorphism and somatic cell count in milk

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Veterinarni Medicina, 51 (2006): 14-20

[[fulltext](#)]

The study included 124 Polish Black-and-White dairy cows of various share of the Holstein-Friesian (HF) breed. Lactoferrin (LTF) gene polymorphism was obtained with PCR-RFLP method using *EcoRI* enzyme. Two alleles of LTF, A and B, were found in the studied population. Their frequencies were 67.74% and 32.56%, respectively. The alleles controlled the occurrence of three genotypes: AA, BB and AB, of frequencies equal to 37.90%, 2.42% and 59.68%, respectively. It was established that statistically significant associations exist between the somatic cell count (SCC) and LTF genotype, lactation month

and parity as well as the HF gene share. No significant association was found between somatic cell count and season. The highest somatic cell count (transformed to a logarithmic scale) was found in milk of the *AB* genotype, whereas the lowest one was found in cows of the *AA* genotype.

Keywords:

lactoferrin; polymorphism; somatic cell count; bovine

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