

GENETIC POLYMORPHISM OF β -LACTOGLOBULIN (β -Lg) IN TWO RUSSIAN SHEEP BREEDS

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SUMMARY

Milk samples from 120 Russian Merino (Precos) and 30 Romanov sheep were analyzed by polyacrilamide gel electrophoresis under acid conditions to study the Genetic polymorphism of β -lactoglobulin (β -Lg) in two Russian sheep breeds. Five different β -Lg phenotypes (A, B, AB, AC and BC) were observed in Precos breed milk, but only three phenotypes were found in Romanov breed milk (A, B and AB). Differences in gene frequencies between flocks were observed. The gene frequencies of β -Lg were: A: 0.617, B: 0.36, C: 0.016 in Precos breed milk and A: 0.600, B: 0.400 in Romanov breed milk.

Keywords: *β -lactoglobulin polymorphism, Russian sheep breed, polyacrilamide gel electrophoresis.*