IMPROVING THE QUALITY AND SAFETY OF GOATS MILK IN FARM

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With increasing interest to the industry of goats breeding and increasing demand for goat milk as a valuable food product, it is necessary to determine its quality and safety more thoroughly.

The objective of the research was the analysis of biochemical parameters and the number of somatic cells in goat milk before and after recommended veterinary-sanitary measures. The material for the research was milk of goats from private enterprise "Grosov." 36 samples of milk were investigated before recommended veterinary-sanitary measures and, selectively, 15 samples after that. It was noted during analyze of initial results that total milk yield of 36 goats was 8266 ml, which is a very low rate.

Biochemical parameters of milk were determined using ultrasonic milk analyzer "Ekomilk type MILKANA KAM 98-2a". Apart from small amount of milk yield, biochemical parameters of the goat milk, in the majority, were within normal limits. For example, 75% of goats in the herd had milk fat content 3,5-5,5%.

The amount of somatic cells was determined by means of viscometric analyzer "SOMATOS M". It was determined that 80.5% of goats milk can be attributed to a higher class (by data normative documents). But in one sample it was found > 1,5 million somatic cells which is the indicator of subclinical mastitis (by data normative documents). Veterinary-sanitary measures, which would influence on the quality and quantity of goat milk, were proposed to owner of the farm.

Following the recommended veterinary-sanitary measures it was found a significant, 2.5-fold, increase in milk yield and a decrease of the number of somatic cells by 53%. Also the fat, skimmed residue of milk, lactose were increased.

There are many factors to improve the sanitary parameters and quality of goat milk and animal productivity. The influence of using the ointment for milking "Fitosept" on parameters of quality goat milk will be studied in the subsequent research

Veterinary-sanitary measures, goat milk, biochemical parameters, the number of somatic cells