Assessing the Quality of Raw Goat Milk Based on Microbiological Analyses

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Abstract:

Milk has a complex composition, the physico-chemical microbiological parameters of raw goat milk are slightly different and are influenced by the state of health of the animals, the age of the animal, the breed, the milking system, the lactation period and the hygienic-sanitary conditions on the farm. The assessment of the quality of raw goat milk was carried out based on the analysis of the following microbiological parameters: the total number of aerobic mesophilic germs that develop at 37°C (NTG), the number of coliform colonies (CT), the number of staphylococci colonies, and the number of mold colonies. The analyzed milk came from 2 micro-farms where the emulsification was done manually. The values determined for coliform bacteria at the level of raw milk samples from goats from the 2 microfarms fell within the limits provided by the legislation in force. For the total number of germs, staphylococci and mildew, the normal limits stipulated in the legislation were punctually exceeded. These variations of the microbiological parameters taken in the studio were influenced by the animal, the breed, the state of health of the animal, the hygienic-sanitary conditions of milking and the resistance to hygiene in the microfarm.

Keywords:

Goat, microorganisms, milk, quality.