RATIONING OF ESSENTIAL AMINO ACIDS IN DIETS OF LAMBS DURING SUCKLING

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Efficient feeding of animals bases on the knowledge of their energy needs, nutrients and biologically active substances, particularly of high-grade protein. Provision to sheep of sufficient amount of essential amino acids occupies an important place among the main factors that determine the optimal level of protein nutrition of sheep. It should be noted that the special physiological value to the animal organism is the presence in the feed of lysine and methionine and cystine. Amino acids are the most important components of all living organisms. The biggest part of them can be synthesized in a sheep rumen by microbes of the gastrointestinal tract. However, some of them are essential amino acids and in the body of the animal they must be replenished at the expense of feed rations.

An objective assessment of functional reserves of the body's digestive tract of sheep on the mechanisms of digestion and absorption of animal feed indicates that maximize the genetic potential of productivity of the animals is necessary to consider the concentration of essential amino acids. In particular it is essential to have lysine and methionine and cystine in a diet dry matter of young sheep, as these animals have a high energy growth and requires a large amount of plastic material. Investigations to determine the effect of different levels of lysine and methionine and cystine in rations of lambs on the value of their productive characteristics during suckling were carried out. The actuality of these studies is based to the lack of new knowledge about providing high-grade amino acid nutrition of animals and the importance of the physiological role of the essential amino acids in the body.

The results of the experiment to determine the optimal concentration of essential amino acids (lysine and methionine and cystine) for Taurine type lambs of Askanian fine-fleeced breeds during the period of suckling showed that the increase in the level of these matter, respectively, to 8.9 is the 7.9 g / kg of dry matter in the ration provides intensification of metabolic processes in the body of young sheep.
Also these data confirmed and show an increase of 12-15% of the total amount of hemoglobin, the protein and its fractions in the blood of animals, as well as improved feed conversion in sheep products, an increase on 15.3% daily gain of lambs during suckling. The use of diets with optimum content of lysine and methionine and cystine promotes good health and high welfare of young sheep.

**Keywords:** AMINO ACIDS, LYSINE, METHIONINE WITH CYSTINE, DIET, FEED, YOUNG SHEEP, LAMB, EWES, DIGESTIBILITY, PRODUCTIVITY.