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INFLUENCE OF THE "PROTECTED" FORM OF METHIONINE IN DIETS ON THE DIGESTIVE AND EXCHANGE PROCESSES IN THE SHEEP ORGANISM

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Abstract: *The relevance of work In conditions of intensification of sheep husbandry, the requirements for obtaining the greatest amount of high-quality wool, sheepskin and meat are substantially increasing.The most complete realization of the potential for sheep productivity is possible only under conditions of optimal feeding, balanced in all nutrients, including amino acids. When feeding sheep, methionine is the most important essential amino acid. It was found that amino acids undergo partial degradation under the influence of rumen microorganisms. [Aliev A.A. 1997, Dvalishvili V.G. 1989, Zlydnev N.Z. 1993, Kryazheva V.L. 2002, Sevastyanova N.A. 1974, Tkachenko M.A. 1985]. This problem can be solved by feeding methionine to ruminants in a "protected form in order to prevent splitting.*

Keywords: *Methionine, Protected methionine, cicatricial digestion, Amino acids.*

The Research objective To determine the effect of the "protected" form of methionine on the processes of cicatricial digestion, digestibility, and use of feed nutrients, and metabolism in the body of sheep whereas Methionine is an essential amino acid. As the substrate for other amino acids such as cysteine and taurine, versatile compounds such as, and the important antioxidant glutathione, methionine plays a critical role in the metabolism and health of many species. Methionine is also an important part of angiogenesis, the growth of new blood vessels. Methionine is an essential nutrient and generally [1-5]. Meeting methionine requirements results in higher production, better metabolic health, and improved reproduction performance. Because the methionine content of feedstuffs is generally low, supplemental methionine should be fed to meet the nutritional requirements. This allows the proper

balance of amino acids to be achieved in the ration helps reduce nitrogen excretion; and helps improve production, health, and reproduction.will be done through:

1. To study the effect of the "protected" form of methionine supplementation on cicatricial metabolism;

2. To determine the effect of the additive of the "protected" form of methionine on biochemical and hematological parameters;

3. To identify the effect of the "protected" form of methionine on the digestibility and use of nutrients in feed rations;

4. To establish the effect of the "protected" form of methionine on the growth rate of sheep;

5. Determine the effectiveness of using a "protected" form of methionine in sheep diets.

Scientific novelty of research:

It consists in the fact that for the first time the processes of cicatricial metabolism, digestibility and use of feed nutrients, metabolic processes in the body of the sheep when using a new domestic "protected" form of methionine in the diets were studied.

The experiment will be carried out in the physiological yard and in the department of physiology and biochemistry of agricultural animals of the Institute of Federal State Budget Scientific Institution Federal Research Center for Higher Life Sciences named after L.K. Ernst at the Department of Animal Feeding and Breeding of the Russian State Autonomous Agricultural Academy named after K.A. Timiryazev, and production inspection in a sheep farm.

Table 1

Scheme of physiological experience

Group	Number of Animal Goals	Feeding characteristics
1 - Control experimental	3	The main diet (OR)
2 - Experienced	3	(OR) + 2g unprotected methionine
3 - Experienced	3	(OR) + 2г Protected methionine
4- Experienced	3	(OR) + 4г Protected methionine

The studied indicators:

* Indicators of cicatricial metabo
* Biochemical parameters of blood;
* Hematological indicators;
* Digestibility of nutrients.

Table 2

Production Inspection Scheme

Group	Number of Animal Goals	Feeding characteristics
Control experimental	15	The main diet (OR)
Experienced	15	(OR) + (methionine) protected 2 or 4 grams in the composition of the feed

The studied indicators:
* Blood biochemical parameters;
* Hematological blood counts;
* Preservation of livestock;
* Gains in live weight;
* Cost-effectiveness.

Expected results. We will study the indices of cicatricial digestion, metabolic processes in the body of sheep and the use of food nutrients when using a new form of "protected" methionine in diets.

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EFFEKTIVITÄT DER ANWENDUNG VON ELEKTRONISCHEN BILDUNGSRESSOURCEN BEIM STUDIUM DER DEUTSCHEN SPRACHE AN AGRARUNIVERSITÄTEN

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Annotation: *der Artikel befasst sich mit dem Problem der Effektivität der Anwendung elektronischer Bilduungressourcen beim Deutschunterricht an der Agrarhochschule. Der Autor erklärt die Notwendigkeit, diese Arten von Ressourcen zu verwenden, und beschreibt auch, wie sie in der Praxis angewendet warden können.*

Schlüsselwörter: *Effizienz, elektronische Bildungsressourcen, unkonventionelle Form des Unterrichts.*