DETERMINATION OF VITASTAR FEED ADDITIVE TOXICITY

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Today, animal husbandry is conducted on an industrial basis, which results in the use of highly productive animals that are able to make the best use of feed. In feed animals use more than 500 different feeds and feed additives.

One of them is the Vitastar feed supplement, which is intended to improve the metabolism of animals and poultry, development and increase their productivity. The action of a feed supplement is due to a combination of vitamins and amino acids present in its composition.

The fodder supplement is used for horses, pigs, poultry to replenish the balance of vitamins and amino acids, to stimulate the metabolism of carbohydrates, lipids, proteins, nucleic acids, to ensure the functioning of the tricarboxylic acid cycle, improve hemopoiesis, increase nonspecific resistance and productivity.

The task of the work was to establish the toxicity of the feed additive Vitastar in laboratory animals in single use (acute toxicity) and long-term administration.

The results of the Vitastar feed additive toxicity studying are presented in the article. It was established that the medication belongs to a 4-th class of toxicity (low-toxic compounds).

Oral administration of feed additive Vitastar for 28 days in 10 times higher therapeutic dose leads to increase in weight of functioning liver cells.

On the 29-th day of the experiment, the introduction of feed additives in the experimental doses (therapeutic and 10x-therapeutic) probable changes in the morphological and biochemical indices of blood of white rats compared to controls were found.

Keywords: ACUTE TOXICITY, SUB-ACUTE TOXICITY, FEED ADDITIVE, LABORATORY ANIMALS.