IMPACT OF DIETARY SUPPLEMENTS ON SOME CHAIN OF METABOLISM IN PIGLETS IN WEANING PERIOD

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The article is devoted to actual scientific problem of increasing adaptive capacity and performance of high performance young animals in industrial growing. The searching of environmentally friendly, low emission and highly biologically active compounds that can be applied to animals with food has been conducted. In order to activation the metabolic processes the influence of natural humic additives and ascorbic acid on some indicators of energy and protein metabolism in piglets' blood during one of the most critical periods of ontogenesis – weaning period was examined.

For experiment two groups of animals of large white breed (8-10 animals in each group) were formed. Research group of piglets from 14-day old once a day received biologically active fodder additive "Humilid" to the standard ration in the dose of 0.5 ml / kg of body weight and vitamin C in the doses of 2.5 mg / kg of body weight. The control group of animals received a standard diet. Weaning of piglets from sows were performed in 28-days from birth.

It has been found that the addition to the diet of piglets Humilid in the complex with ascorbic acid induces activation of anabolic (increase of total protein, alanine aminotransferase and aspartate aminotransferase activity) and energy processes (increase of glucose concentration and alkaline phosphatase activity) in plasma within the physiological norm compared with animals which received a standard diet. The positive impact of comprehensive feeding of these dietary supplements was observed on 5 day to weaning and especially on 2 and 10 days after weaning of piglets from sows that points to the prolonged action of these substances on the animal's organism.

The higher productivity and preservation of experimental animal compared with the control group was observed. Live weight and average daily gain of 38-day-old piglets fed before weaning vitamin C with Humilid was higher by 20%, and survival — by 13% compared to animals that were kept on a standard diet.

The obtained data indicate that ascorbic acid in combination with Humilid can be used as adaptogens, which combined action weaken the negative impact of stress.
factors on the organism of piglet in weaning period, activating protein and energy metabolism, increase anabolic processes, adaptive capacity and survival of animals.

**Keywords:** PIGLETS, WEANING, "HUMILID", ASCORBIC ACID, METABOLISM.