

THE EFFECT OF ANTIOXIDANT VITAMINES E AND A ON THE ORGANISM OF CHICKENS AFFECTED BY T-2 TOXIN

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Summary. The aim of our experiment was to establish the levels of antioxidant vitamins E and A in blood serum of the chickens affected by subclinical doses of T-2 toxin and to estimate the changes of vitamin levels by diagnostic means and to compare their preventive properties. We also tried to compare the changes of a few serum indices - such as enzymes GOT, ALK, GGT, LDH and total protein, albumin's and glucose- between chickens fed on toxic feeds containing vitamin additives and 18 chickens were used in the experiment. These birds were divided into 3 groups and fed on toxic feeds containing vitamin additives. Levels of vitamins in their serum were tested by fluorimetric methods and other tests were done by a Hospitex CH-16 apparatus. The results show that vitamin E and selenium have protected chickens from T-2 toxicosis. We offer to use the recommended vitamin E and selenium for a prevention, doses being: 500 mg of tocopherol acetate and 15 mg Na₂SeO₃ per 1 kg feeds.

Keywords: T-2 toxin, peroxides, antioxidant vitamins E and A, GOT, ALK, GGT, LDH.