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**Metabolic role using a feed additive of humic nature 'humilid' on the organism of black African ostriches and broiler chickens**

by Lilia Stepchenko; Lyudmila Galuzina; Evgenia Myhaylenko; Alisa Lisna

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**Abstract:** The study investigated the influence of the humic nature feed additive 'humilid' on physiological and biochemical parameters of blood and liver in black African ostriches and broiler chickens (Cobb 500 cross) that characterise the state of protein metabolism in agricultural poultry. Results showed that morphological and biochemical blood parameters that characterise protein metabolism state were improved in the blood of ostriches by adding 'humilid' into their diet. It was also found with 'humilid' the total content of amino acids in all types of ostriches muscles was significantly higher. It was shown that in broiler chickens 'Cobb 500' cross, to which 'humilid' was added to the water, there was an increase in the total protein of blood plasma and in the water-soluble fraction of the liver. In conclusion, additional use of the 'humilid' feed additive in poultry had increased the body's natural resistance, activated metabolic processes, and due to an increase in the muscle tissue, the content of total protein, essential amino acids and by this, it had an increase in the biological value of meat products.

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< Previous article

Next article >

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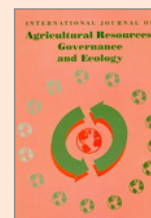
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**Keywords:** feed additive, humic substances, 'humilid', blood, broiler chickens, protein metabolism, amino acid, CBC, blood biochemistry, Cobb 500 cross

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