

EFFECTS OF PHYTASE ADDED INTO DIETS FOR FATTENING CHICKENS, ON THE LEVEL OF CALCIUM AND PHOSPHORUS IN BLOOD SERUM

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SUMMARY: The aim of this study was to examine effects of adding phytase enzyme into the compositions for feeding fattening chickens, with different level of monocalcium phosphate, on the level of calcium and phosphorus in blood serum of chickens. The experiment of feeding included 220 chickens of Arbor Acres strain divided into two groups (110 chickens in each group). The first group was control group (K), without addition of phytase enzyme. The second group was the experimental group O-I which gained by diet enzyme phytase (0,1%) with double less level of monocalcium phosphate (MKF).

At the end of fattening period (42 days) sacrifice of chickens was done 10 chickens from each group. By sacrifice samples of blood were taken in which contents of calcium and phosphorus were determined. Gained results show that with addition of enzyme phytase (0,1%) into diets for chickens, by double less level of MKF, positive effects are reached meaning the contents of calcium and phosphorus in blood serum of chickens. The chickens of experimental group had bigger content of calcium (13,15mg%) ($P < 0,01$), of total phosphorus (21,48mg%) ($P < 0,01$); of inorganic phosphorus (7,02mg%) ($P > 0,05$) in comparison to chickens to control group: calcium (11,95mg%) totally phosphorus (19,58mg%) and inorganic phosphorus (6,82mg%).

Key words: chickens, phytase, calcium, phosphorus, blood serum.

INTRODUCTION

Metabolism of phosphorus that has origin from plant tissue is one of the most examined problems connected to mineral feeding. Considering that the diets for poultry are based mainly on nutrients of plant origin, the question appears in that measure

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