

## PHYTASE IN DIET FOR FATTENING CHICKENS, INFLUENCE ON BONE'S QUALITY\*\*

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**Abstract:** The influence of phytase added in diet for fattening chickens on the meat quality, was examined during the feed experiment. The experimental examinations were done on the chickens of Arbor Acres strain. There were 440 chickens in the experiment, divided into the 4 experimental groups considering the levels of mineral sources of phosphorus and phytase added into the diet. Control group K (110 chickens) dicalcium phosphate 2%, O-I group (110 chickens) monocalcium phosphate 1,4%; O-II group (110 chickens) dicalcium phosphate 1% + 0,1% phytase; O-III group (110 chickens) monocalcium phosphate 0,7% + 0,1% phytase. The feeding experiment lasted for 42 days.

The chemical analyzes of white and red meat of experimental chickens that the meat of the chickens that gained phytase by diet with lower level of mineral source of phosphorus have more proteins and less fat phytase by diet ( $P < 0,05$ ).

**Key words:** chickens, phytase, sources of phosphorus, meat, quality.

### Introduction

The phosphorus is of the main structural elements of body. Besides the fact it has very significant role as a bone part, the phosphorus is essential component of organic compounds which are included into the metabolism of energy, carbohydrates and fat.

The facts that phosphorus takes part in lot of more processes of metabolism than any other mineral, makes it body essential element in animal body (Jovanović, 1984, Khan, 1995).

The metabolism of phosphorus that has plant origin, presents one of the most examined problems connected to the mineral feeding. Considering that











