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Nutrient utilization efficiency quail egg production efficiency at various levels of zinc in feeds

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The main condition for increasing profitability poultry production is efficient use of feeds as a share of the cost accounts for about 60-80% of all direct costs.

The most effective use of energy in the formation of products is possible only with the full software birds by both the energy and protein, fat, carbohydrates, vitamins and mineral elements. Zinc is one of the most important micronutrients, a sufficient amount of which depends on the stern intensity of biochemical processes in the body and, consequently, the performance of poultry.

Recommended levels of zinc in compound feed for adult quail egg breeds vary within 50-75 mg/kg. Therefore, the standard diet containing only 25-30 mg/kg given element should be administered in addition salt thereof.

However, in the literature there are reports that indicate inefficiency salts of zinc supplements to the diets of birds.

In this regard, the relevant question is the study of the influence of salts of zinc supplementation to diets quail egg breeds the efficiency of nutrient feed.

Analysis of the results of our research can be noted that increasing zinc content in feed for quail egg productivity direction from 3 to 7 mg per 100 g of egg production increases by 7,2%, egg mass output - by 7,6% and reduce feed costs by 10 eggs and egg mass 1 kg respectively 6,8 and 6,9%. The efficiency of feed under these conditions increases by 1%.

Further increase of zinc in compound feed to the level of 11 mg per 100 g was not effective. Evidence of this is to reduce egg weight by 2,3% decrease in the

number of egg mass output compared with that of control at 1,9%. Decline in the efficiency of feed under these conditions was 0,2%.

However, zinc enrichment feed for quail research groups to the level of 5-11 mg per 100 g resulted not probable effects on the chemical composition of eggs. However, there is a steady upward trend in their fat content.