

EVOLUTION OF PROTEIN METABOLISM AND BODY MASS OF QUAILS UNDER THE INFLUENCE OF PHYTOMICROBIAL ADDITIVE OMEPOL 30

**Vasile MACARI, Oleg CHISELIȚA, Ana MACARI,
Natalia CHISELIȚA, Liliana ROTARI**

Technical University of Moldova, Chisinau, Academiei 3/3 street,
Republic of Moldova

Corresponding author email: oleg.chiselita@imb.utm.md

Abstract

This research presents the effects of phytomicrobial additive OMEPOL 30 on markers of protein metabolism in blood serum and the evolution of body mass of laying quails. A total of 150 quails were divided into groups: control group and two experimental groups with 50 birds in each one. The control group was fed with basic combined feed, the experimental groups – with basic combined feed supplemented with 0.25 and 0.5% of additive during 71 days. The results indicated that the product was well tolerated by laying quails, strengthening their health status. In addition, modulation of protein metabolism was inferred from changes in marker parameters: the significant increase ($p < 0.01$) of total proteins, albumin and creatinine in the experimental groups, as well as the tendency to increase urea and decrease uric acid in the blood, which attested to the intensification of protein metabolism. In conclusion, we can mention that tested product improves metabolic health of quails, which was also proven by stopping the loss of body mass of birds during intensive egg laying.

Key words: additive, creatinine, quail, protein, urea.