

THE INFLUENCE OF ENZYME PREPARATION, CONTAINING XYLANASE, PECTINASE AND BETA-GLUCANASE ACTIVITIES FOR BROILER CHICKENS PRODUCTIVITY AND NUTRIENTS DIGESTIBILITY, USING PEAS IN FEED MIXTURES

Marius Kapočius, Asta Racevičiūtė-Stupelienė, Vilma Šašytė, Vytautas Sirvydis, Romas Gružasuskas

Summary. By analysing the influence of supplements of enzyme preparations on broiler chickens productivity and digestibility of nutrients, 2 feeding and 1 nutrients digestibility experiments were performed, using the pea of "IP-5" strain in feeds. Using 18 % of pea in feed mixtures, it was estimated that the average weight of birds of first (control) group was 1758 g and feed conversion ratio through all period was 1.69 kg. While the average weight of birds of second group, fed with the same feed mixture and supplemented with additive of enzyme preparation was 1.9 % higher and feed conversion ratio was 1.8 % lower. These differences are not significant. Using 20 % of pea in feed mixture, addition of enzyme preparation increased 7 % ($p < 0.001$) the average weight of broiler chickens and decreased 3% ($p > 0.05$) feed conversion ratio, in comparison with control group. The addition of enzyme preparation with xylanase, β -glucanase and pectinase activities statistically non significant improved the digestibility of organic mater and crude fat, by using 18 % of pea in feed mixtures.

Keywords: pea, broiler chickens, productivity, digestibility, enzyme preparations