Comparison between effects of Complex enzyme and Multi enzyme supplementation on the Productive Performance of Broiler

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ABSTRACT: This study was conducted to evaluate the effect of different feed enzymes complex enzyme and multi enzymes on the weekly and finally productive performance of broiler chicks. A total of 600 broiler cobb chicks, housed in experimental unit, with stocking density 10/ m2, using 10 pens, 60 chicks for each . Feed and water were provided *ad libitum* through feeders and bell drinker. Birds were divided into two equal groups. T1, and T2; each of them 300 chicks, five replicates, T1 group of chicks fed the basal diet supplemented with complex enzymes Allzyme SSF® 0.2 gm/kg feed, T2 group was fed on the basal diet supplemented with Multi enzymes Natuphos® 0.05 gm/kg feed plus Zympex 008® 0.5 gm/kg feed. Data collected were, productive performance (weekly feed intake, weekly body weight, weekly FCR, final body weight, feed intake, feed conversion ratio, mortality rate and European performance index) Results revealed significance different between different test groups as within different weeks as group two supplemented by Natuphos® and Zympex 800®. Natuphos composed of Phytase and Zympex 800 composed of Alpha-galactosidase, Protease, Beta-mannanase, Cellulase, Xylanase, Beta glucanase, Amylase, and Protease; showing a higher average body weight and lower FCR, compared with group one supplemented with Allzyme SSF® that composed from Phytase, Protease, Cellulase, Xylanase, Beta-glucanase, Amylase, and Pectinase. Finally, there was no significance difference in feed conversion ratio, mortality rate, and European efficient index between different test groups. From results concluded that both complex enzyme and multi enzyme has beneficial effects on the broiler performance parameters

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