



Effect of Adding Phytase to Low Protein Diets on Some Productive Traits of Quail

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Abstract: This study was conducted in to observe the effect of adding phytase enzyme to low protein diets on some productive traits of quail. The 360 one-day-old" quail chicks were used, bred collectively during the first week and given a standard diet containing 24% protein and at the beginning of second week chicks were randomly distributed to 6 treatments. The treatments were control and second treatments included standard diet of 24% protein with the addition of phytase enzyme, third and fourth treatments were 22% low in protein with the addition of phytase enzyme for fourth treatment. The fifth and sixth treatments were with 21% lower in protein with addition of phytase enzyme for sixth treatment. Percentage by adding phytase enzyme to additional treatments was 500 g/ton. The results of showed a significant superiority at fifth and sixth week of first treatment, control compared with rest of the treatments in mean live body weight and weight gain. There wax significant decrease for third treatment compared to first, second, fifth and sixth treatments at fifth week, while in sixth week that there was a significant superiority for the third treatment compared to second, fourth and sixth treatments. There was a significant improvement in average feed conversion for a fifth and sixth week, as well as a total conversion factor for the first treatment (control) compared with rest of the treatments.

Keywords: Phytase, Low protein diets, Quails
