Effect of enzymes and probiotic mixture supplementation to the diet of growing female rabbits on performance and carcass criteria.

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Abstract:

A factorial design (3 breeds x 3 Supplemented diets) of the present study was determined. A total number of eighty one New Zealand White (NZW), California (CA) and Ve-Line (VL) growing rabbit females strains at 30 days old was similarly body weights averaged (550 g ± 33) and was distributed into 9 groups (G1 to G9), each of three equal replicates. G1 to G3 (Enz0) for NZ, CA and VL strains, respectively were served as controls. G4 to G6 (Enz1) for NZ, CA and VL strains, respectively were supplemented with 1 g Veta-zyme/kg commercial diet, while the G7 to G9 (Enz2) were supplemented with 2 g Veta-zyme/kg commercial diet. The experiment was terminated when rabbits were 72 days old. Body weights (BW), body weight gain (BWG) and feed intake (FI) were recorded. Feed conversion ratio (FCR) was calculated. At the end of the experiment, 6 females for each group were slaughtered to determine carcass criteria. The obtained results could be summarized as follows: No significant differences in BWG, FI and FCR among different strains were observed. Supplementing Enz1 or Enz2 in growing diets exceeded significantly (P≤0.05) exceeded BW, BWG and FCR than those of Enz0 during the experimental period (30 to 72 days of age). However, the improvement in FCR and increasing in BW and BWG were higher in Enz1 groups than those of Enz2 ones. Veta-zyme supplemented in diet had no affect on FI. There were no significant differences in carcass criteria under study due to strains or Veta-zyme supplement to diet except liver weight percentage. Conclusively, from these results could be concluded that supplemental Veta-zyme at the levels of 1g/kg diet for different growing female three rabbit strains improved growth performance.

Keywords:

Rabbits, strains, enzymes, growth performance, carcass criteria

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