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Effect of incorporating hydrolyzed gelatin in pre-starter diet on performance and slaughter variables in commercial broilers

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An experiment was conducted to study the effects of supplementation of hydrolyzed gelatin (HG) at graded levels (0, 2, 4, 6, 8, and 10%) in the pre-starter diets on performance and slaughter variables in broilers. A total of 300 male broilers were uniformly distributed in completely randomized design with six treatments and ten replicates in each treatment. Maize-soybean meal based control diets (CD) were formulated to contain 2950, 3000 and 3100 kcal ME/kg and 22.5, 20, 19% crude protein, respectively during pre-starter (1-11 d), starter (12-28d) and finisher (29-42d) phases and fed ad libitum from 1d to 42 d of age. The results indicated that the body weight gain (BWG) and feed intake improved significantly in broilers fed on diets supplemented with 2 or 4% HG compared with those fed on the CD. Supplementation of 10% HG significantly reduced BWG compared to that of CD fed group. At 42 d of age, broilers fed on diets with 6% HG weighed significantly higher body weight compared with the CD fed birds. Feed conversion ratio and slaughter variables (ready to cook yield, relative weights of breast, liver, abdominal fat and giblet) were not affected with dietary treatments from 1- 42 d of age. It could be concluded from this study that the hydrolysed gelatin can be incorporated up to 6% in commercial broiler diet during the pre-starter phase without affecting performance and slaughter variables at 42d of age.

Biography

T Srilatha is the holder of MVSc and PhD degrees in the field of Poultry Science from College of Veterinary Science, Hyderabad, Sri Venkateswara Veterinary University, Tirupati and worked as Guest Faculty for CABM in ANGRAU, Hyderabad. Presently she is working as Assistant Professor in Department of Poultry Science at College of Veterinary Science, Korutla, Karimnagar. She has published 6 research papers in reputed scientific journals at national and international level.

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