

Evaluation of Immunomodulatory effect of Stresroak Premix in Broiler Chick

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Abstract

The present study was aimed to evaluate the immunomodulatory efficacy of polyherbal formulation Stresroak along with effect on performance in broiler chicken. Four hundred and fifty healthy days old chicks were randomly divided into three groups (each group consisting of 150 chicks). Group A served as a negative control while group B served as positive control supplemented with levamisole, a known immunomodulator @ 15 mg/kg body weight through water for four consecutive days from third day onwards. Group C birds supplemented with Stresroak were administered @ 1 kg /tone of feed for consecutively for 11 days i.e. 5 days before and 5 days after vaccination. Parameters under study were performance traits viz, body weight gain, feed consumption, FCR, blood samples were collected at weekly interval for evaluation of various haematological, biochemical immunological and histopathological examination parameters. Results revealed that the antibody titre, total proteins and globulins were increased significantly in the birds receiving Stresroak as compared to untreated control group. Performance parameters were improved non-significantly as compared to untreated control (Group A). Histopathologically varying degrees of lympho-proliferative changes noted which reveals increase number of lymphocytes. It was concluded that Stresroak exhibits hematinic, hepato-protective and Immunomodulator properties

Key words: Immunomodulator, Broiler, Polyherbal, Hematinic, Hepato-protective.