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Study of Lipid Profile and Production Performance in Layers as Influenced by Herbal Preperations Abana™ and Garlic Paste

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Abstract

A study was conducted to evaluate the effect of hypocholesteramic herbal preparation Abana™ and garlic paste on lipid profile and production performance in layers. A total of one hundred and eighty BV-300 commercial layers of about 48 weeks age were randomly distributed into 18 groups of 10 layer birds in each. Six dietary treatments with the diet supplemented with Abana™ at 80 mg/kg body weight and 120 mg/kg body weight and garlic paste at 0.5 % individually and in combination were formulated for three periods of 28 days each. Each dietary treatment was offered to three groups of layers reared in individual cages for 28 days in each period. All the birds received similar management practices except the dietary treatments. The feed intake and body weight gains were recorded every 28 days. At the end of every 28 days the serum and egg yolk was collected form each replicate, pooled and analysed for High Density Lipoprotein (HDL), Low Density Lipoprotein (LDL), Very Low Density Lipoprotein (VLDL) and triglycerides in serum and cholesterol level in egg yolk. Results indicated that there was reduction in the egg yolk cholesterol level but was not significant. Thus, in future research has to be conducted with Abana™ at levels higher than what was used during this research, which may result in significant reduction of egg yolk cholesterol.

Keywords: Garlic paste, Lipid profile, Layer, Herbal, Cholesterol.