EFFECT OF ENZYMATIC PREPARATIONS ON IMPROVEMENT OF ENERGY UTILIZATION IN BROILER CHICK DIETS 2. CANOLA SEED

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ABSTRACT:
An experiment was conducted to study the possibility of partially replacing Soybean meal with Full-fat canola seeds (FFCS) with/without multicarbohydrase enzymes and its effect on growth performance, some carcass traits, some blood serum parameters and economical efficiency. A total number of 390 unsexed day-old Arbor-Acres broiler strain chicks were equally divided into 13 groups of similar mean body weight of 3 replicates each. An experimental corn-soybean meal starter and finisher basal diets were formulated in which dietary protein was replaced by FFCS protein at replacement ratios of 5, 10, 15 and 20%. Diets were formulated to be iso-nitrogenous and iso-caloric being 23% CP & 3000 kcal ME/kg for the starter diet and 20% CP & 3100 kcal ME /kg for the finisher diet. Thirteen dietary treatments were compared. One treatment consisted of the basal diet without FFCS (positive control diet). Four treatments consisted of the positive control diet supplemented with 5, 10, 15 or 20% FFCS without enzyme supplementation (negative control diets). Eight additional treatments consisted of the negative control diets supplemented with either Zympex® 008 or Xylam500® enzyme products at a level of 0.05%. Live growth performance, carcass characteristics, some blood serum parameters, sensory evaluation of cooked meat and economical efficiency were determined. From the nutritional and economical point of view, it was observed that using FFCS up to 20% in both starter and finisher broiler diets supplemented with Zympex® 008 enzyme product at a level of 0.05% has no detrimental effect on broiler chick's growth performance and gave the best economical efficiency.

Key words: Canola seeds, performance, slaughter, carcass, blood, sensory economic, broiler.