**EFFECTS OF HYDROXY COPPER CHLORIDE IN COMBINATION WITH SYNERGISTIC BLEND OF ORGANIC ACIDS ON PERFORMANCE OF BROILER CHICKENS RAISED UNDER A LESS HYGIENIC AND HIGHER TEMPERATURE CONDITION**

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Synergistic organic acids (OA) represent the novel antibiotic replacement that can be used to enhance the performance of broilers raised under normal and environmentally challenged conditions. Hydroxy copper chloride (Intellibond Cu, IBC) has been shown to have a beneficial effect on growth and health of broilers. This trial was designed to investigate the use of blend of OA in combination with IBC on growth, production efficiency (PEF) and survival rate of broiler chickens, reared for 35d on floor pens with recycled litter and a house temperature of 320C. Day-old male Cobb 500 broiler chicks (n=504) were distributed in 3 groups of 12 replicates (n=14 chicks/pen) and fed 1 of 3 diets: a basal diet with 15ppm Copper sulphate (Control), Control + bacitracin (AGP), or a basal diet with 150ppm IBC + synergistic OA in water in combination with a blend of OA in feed, containing phenolic compounds, butyrate, MCFA and SCFA (OA+IBC). In all parameters examined, no significant difference was observed between the AGP and OA+IBC groups. In relation to the control, the supplementation of OA+IBC improved feed efficiency (‒2.5%; P<0.05). A numerical improvement in survival rate was observed, whereby OA+IBC was 2% higher than control (P=0.33). Accordingly, the PEF tended to be higher in OA+IBC group (P=0.06). In conclusion, the synergistic blend of OA and IBC shows comparable benefits as in-feed antibiotics on performance and health of broilers. Water and feed additives in combination with IBC can improve feed and production efficiencies without compromising the survival rate compared to control.