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Roxazyme G2G supplemental value in the utilization of cassava starch residue by broiler-chickens

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This study assessed the supplemental value of roxazyme G2G in the utilization of cassava starch residue (CSR) by broiler-chickens in an eight-week feeding trial involving 450-day-old chicks. Fifty broiler-chicks were distributed to each of the nine dietary treatments, replicated five times of ten birds per replicate in completely randomization with 3 x 3 factorial arrangements of treatments. Cassava starch residue meal replaced maize in the diets at 0, 20 and 40% levels and enzyme supplementation at 0, 100 and 200 mg/kg to each level of CSR inclusion. Results showed that birds fed diet containing 20% CSR were similar ($P>0.05$) in the two physiological growth phases (starter and finisher) to the birds fed the control with respect to average daily weight gain (24.02 versus control: 24.24 g/b/d, and 40.94 versus control: 40.82 g/b/d, respectively) while enzyme supplementation at 100 mg/kg enhanced the replacement of maize with CSR up to 40% at both phases without compromising the weight gain of the birds. However, CSR x Enzyme supplementation interaction was not significant ($P>0.05$) suggesting that the trial could be independent of the two factors. Cost of feed \$/kg weight gain significantly ($P<0.05$) decreased in broiler-chickens fed on CSR meal with 100 mg/kg enzyme supplementation with significant ($P<0.05$) interaction of CSR x Enzyme supplementation implying the dependency of cost of feed \$/kg weight gain on these factors. The study revealed that replacement level of CSR for maize in broiler-chicken diet could be increased to 40% with roxazyme G2G supplementation at 100 mg/kg.

Biography

Muyiwa Hilarious Ogunsipe completed his Graduation from Obafemi Awolowo University, Ile-Ife, Osun State, Nigeria and his PhD from Federal University of Technology, Akure, Nigeria. He is a Senior Lecturer in the Department of Agricultural Science, Adeyemi College of Education, Ondo, Ondo State, Nigeria. He has well over 20 published articles in reputed journals. He is a reviewer of many journals of repute.

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