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Influence of different levels of potato peels on growth performance and carcass analysis of Nile Tilapia (*Oreochromisniloticus*)diets

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Abstract: This experiment was carried out to evaluate the performance of Nile tilapia *O. niloticus* fed different levels of potato peels (PP). The different levels of potato peels in different experimental diets were 0 (control), 15, 30, 45 and 60% of maize percentage (all diets were isonitrogenous (25% CP) and isocaloric (3300 ME/kg diet) P/E ratio of 90 mg protein/kcal (ME). During the experimental period diets were fed to Nile tilapia *O. niloticus* fingerlings for 6 days /week at 3% of live body weight through 12 weeks experimental period. 300 fingerlings (25±0.3g) were randomly distributed to five treatments and each treatment had triplicates. The greatest increase in daily body weight gain was (2.25g) of fish were fed on diets (30%) of PP, this was followed by PP60(1.97g), while the least increase in body weight was (1.72g) in PP15. No significant differences were observed between the control and treatments groups in specific growth rate (SGR%) and feed conversion rate (FCR%). In Nile tilapia would be tolerate up till 60% levels of PP as alternative source of yellow corn (YC) in their diets with non significantly effect for all growth parameters (BW, WG and GR), feed utilization (FI, FCR and PER) and the results tack the same trend also in carcass composition. PP could be used into fish nutrition for least cost diets formula.
Kew words:*Oreochromisniloticus*, potato peels, growth performance, carcass analysis.

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