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Evaluation of untreated *Jatrophacurcas* Kernel Meal at low inclusion level on Nile tilapia (*Oreochromisniloticus*) performance, feed utilization and body composition.

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Abstract:Objective: The present study was undertaken in order to evaluate untreated Jatrophacurcaskernel meal at low inclusion level on Nile tilapia (Oreochromisniloticus) fingerlingsperformance, feed utilization and body composition. Materials and Methods Feeding trail was conducted for eight weeks. Fish were fed diets formulated with low inclusion level of Jatropha (0%,1.5 and 2.5%). All diets were isonitrogenous(280g protein kg⁻ ¹)isocaloric (4561.7 kcal kg⁻¹gross energy). One hundred and thirty five fish were randomly distributed intonineaquaria(each $60 \times 30 \times 40$ cm³) to represents three treatments and each treatment was replicated in three aquaria. All aquaria were stocked with fifteen fish (initial weight (11.06g fish⁻¹).All fish fed diets two times daily at 4% feeding level of the total biomass. Results All inclusion levels showed decrease in growth performance parameters which reflect on feedutilization parameters. On the other hand, there was slight difference in the carcass body composition. That's may be attributed to presence of toxic compound found in Jatrophacurcaspresent in Egypt and anti-nutritional factors too. Conclusion this study concluded that we can apply Jatropha in fish diet after applying different detoxification treatments including chemical, physical, biological and or combination of these treatments with the emphasis on Egyptian strains.

Keywords: Nile tilapia, Jatropha, growth performance, feed Utilization, body composition.

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