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Effect of dietary orange peel (*Citrus sinensis*) powder on growth performance in common carp (*Cyprinus carpio*)

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Abstract

Many reports have been recorded on the effect of medicinal plants as growth promoters in various aquatic species. This study was carried out according to considering development of intensive aquaculture systems and the necessity to use medicinal plants as growth stimulator. This study was examined the effect of dietary orange (*Citrus sinensis*) peel powder on growth performance of common carp. To this purpose, 240 fish with average weight of 13.50±.20 gr were divided into 4 groups and 3 repetitions, fish were fed for 56 days (twice a day at 3% of biomass) with experimental diets (3 supplemented diets with 0, 1, 3 and 5 gr/kg orange peel powder and control group). Fish were fed twice a day at 3% of biomass. Result of this study showed that with increase of orange peel powder to 5 gr/kg all growth parameters were improved, but these were not significant for BWI%, specific growth rate(SGR), day growth rate(DGR), body weight gain%, food conversation rate (FCR) than those of control group. This may be due to the inadequacy of proper doses or a moderate feeding period. Based on the results of the present study, no significant difference was observed in all growth indices with orange peel diets compared to the control group.

Keywords: Orange peel, Stimulant growth, Common carp fingerling, Growth performance

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