

Abstract

The aim of this study was evaluate the effects of dietary tomato Pulp powder (TWP) on growth performance, feed efficiency and survival rate of Common Carp (*Cyprinus carpio*) during 12 weeks. The numbers of 180 fish with weight of 8 ± 1 g in five experimental groups were randomly divided in 15 aquaria (five treatments and three replicate) with density of 12 fish per aquarium with equal environmental condition. After two week adaptation, fish were fed with five levels of 0 (control), 50, 100, 150 and 200 g tomato waste powder/kg diet. Feeding rate was 4% of biomass weight and twice per day. The results showed that fish feed with containing 50 g tomato waste powder/kg diet significantly higher of growth with compared to control ($P<0.05$). Daily growth rate (1.00 ± 0.08), specific growth ratio (1.22 ± 0.11) and feed efficiency (60.12 ± 3.62) in fish fed the 50 g tomato waste powder/kg diet were significantly higher than those fed control diet ($P<0.05$). The feed conversion rate (2.69 ± 0.24) in fish fed with 50 g tomato waste powder/kg diet has improved. In conclusion, the addition of tomato waste powder (TWP) at the level of 50 g/kg diet improves growth index and also reduced the production costs compared to the control and can lead to more profitability.

Key words: *Cyprinus carpio*, Tomato waste powder, Growth indices, Survival, Feed efficiency.



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Effect of Different Levels of Tomato Pomace Powder on Growth Indices, Feed Efficiency and Survival Rate of Common Carp (*Cyprinus carpio*)

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