



International Journal of PharmTech Research

CODEN (USA): IJPRIF, ISSN: 0974-4304 Vol.9, No.4, pp 283-288, 2016

Growth promoter effect of garlic (*Allium sativum*) on carp (*Cyprinus carpio* L)

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Abstract: The research aimed to examine the effect of garlic on growth performance of carp (*Cyprinus carpio* L). Carp juveniles were obtained from Freshwater Aquaculture Board in Talelu, Minahasa Regency. Fish were put in oxygenated-plastic bags and transported to Tateli Village at the Aquaculture Development and Training Board (BP3I) where the research was conducted.. After acclimatization for two weeks, juveniles were stocked in 15 net pens (L=0.8, W=0.5, D=1 m) positioned in a pond ((L= 40 m, W=25 m, D= 1.2 m) with a density of 10 juveniles per net pen. During the experiment, fish was fed with pellet containing 0, 5, 10, 15 and 20 g garlic powder per kg pellet at 5% of body weight per day, twice a day at 08.00 am and 16.00 pm. Feeding period was four consecutive weeks. Growth of fish was measured at the end of feeding period. The result showed that feeding the carp with garlic-supplemented pellet for four weeks had significant effect (p<0.05) on fish growth as compared to that of control fish. The highest weight gain was achieved in fish fed pellet supplemented with 15 g garlic per kg pellet. As conclusion, incorporation of garlic into fish feed improved the growth performance of fish.

Keywords: garlic, Allium sativum, Cyprinus carpio, weight gain.

Henky Manoppo *et al* /International Journal of PharmTech Research, 2016,9(4),pp 283-288.
