THE EFFECTIVENESS OF ADDITIONAL PROBIOTICS CONTAINING *Lactobacillus casei* WITH DIFFERENT DOSES OF FEED ON GROWTH AND SURVIVAL RATE OF SNAKEHEAD (*Channa striata*)

ABSTRACT

Dependence on natural feed makes artificial feed as feed replacement in fish cultivation of snakehead. Improving the quality of feed in order to be easily digested and absorbed maximally by snakehead is with adding probiotics containing *Lactobacillus casei*. The aims of the research was to determine the effect and get a dose of probiotics that effectively giving the best growth and survival rate for snakehead (*Channa striata*). 

Snakehead (*Channa striata*) have early weight ranged from 0.894 to 0.975 g/fish reared for 30 days in a waring container measuring 30x30x35 cm with a density of 20 birds / container. Feed used is a commercial feed (nanolis) has a protein content of 37%. Feeding as much as 3% of the body weight and frequency of twice a day. The method used is the experimental method completely randomized design (CRD) consists of five treatment increasing doses of different probiotic feed into K (0 ml.Kg⁻¹feed), P1 (10 ml.Kg⁻¹feed), P2 (20 ml.Kg⁻¹feed), P3 (30 ml.Kg⁻¹feed), P4 (40 ml.Kg⁻¹feed) and each treatment was performed four repetitions. The results showed that of some treatments give significantly different effect on growth and survival snakehead (*Channa striata*). The addition of probiotics containing *Lactobacillus casei* at a dose of 20 ml.Kg⁻¹feed on feed effectively provide, the growth of the absolute weight of 1.13 grams, and a survival rate of 98% for snakehead (*Channa striata*). 

Keywords: Probiotics, *Lactobacillus casei*, Growth, Feed Conversion Ratio, Survival, snakehead (*Channa striata*)