

ABSTRACT

ASSESSING THE USE OF DIETARY PROBIOTIC AS ENHANCER OF ASIAN CATFISH *Pangasius hypophthalmus* GROWTH AND FEED EFFICIENCY

By

JARIYAH ENDANG SETIAWATI

The benefit of commercial probiotics has been proved useful to aquaculture worldwide. The experiments tested the effects of a commercial probiotic (Mina Pro[®]) containing *Bacillus* sp. on growth and feed efficiency in Asian catfish (*Pangasius hypophthalmus*). Twelve aquarias (50 x 40 x 40 cm) were stocked each with 30 juvenile of Asian catfish (5-7 cm in total length) containing 0; 5; 10; 20 ml/kg probiotic inclusion to diet in three replicates for 40 days cultured. Feed offered to *ad satiation* of 35.66 % protein content of commercial feed for three times feeding frequency per day. There was no effect of probiotic inclusion in the diets on growth but survival performances maximal in all treatments ($\alpha = 0.05$). Feed efficiency and nutrient retention was affected by inclusion of probiotic in the diet ($\alpha = 0.05$). The results suggested that inclusion of the probiotic 10 ml/kg to the diet is adequate to support feed efficiency of Asian catfish larviculture.

Key words : probiotic, growth, feed efficiency, Asian catfish