ABSTRACT

EFFECT OF BLACK CUMIN (*Nigella sativa*) ON NON-SPECIFIC IMMUNE RESPONSE ASIAN SEABASS (*Lates calcarifer* B.) WHICH INFECTION VIRAL NERVOUS NECROSIS (VNN)

By

AULIA SONIDA

Asian seabass (*Lates calcarifer*) is one of the fish has a high economic value so widely cultivated in Indonesia. However, asian seabass production obstructed by infectious diseases such as *Viral Nervous Necrosis* (VNN). Immunostimulatory is the prevention method which. The aim of this research were to know the best dose of black cumin which can increase the non specific immune system of asian seabass injected by VNN. This research was conducted during September to October 2013 in the Laboratory National Sea Farming Development Centre (BPBL) Lampung and in the Laboratory of Aquaculture Department, Faculty of Agriculture, University of Lampung. This research used four treatments (0 \% black cumin/kg of feed, 2.5 \% black cumin /kg of feed, 5 \% black cumin/kg of feed and 7.5 \% black cumin/kg of feed). Data from the calculation of total leucocyte and differential leucocyte were analyzed descriptively. The results showed that dose of 7.5 \% black cumin/kg of feed is the best increase the non specific immune system of asian seabass which had been seen from the highest total leucocyte.

Key words: asian seabass, black cumin, immunostimulatory, *Viral Nervous Necrosis* (VNN)