

EFFICACY OF FITOBIOTICS *Rhizophora sp.* FOR BLOOD PROFILE OF CARP SEED (*Cyprinus carpio*) INFECTED OF *Aeromonas hydrophila* BACTERIA

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ABSTRACT

This research aimed to determine the effects of mangrove leaf extract (*Rhizophora sp*) against the average value of total erythrocytes and leukocytes carp seed (*Cyprinus carpio*) were infected by *Aeromonas hydrophila*. The experimental design using a Completely Randomized Design (CRD) with treatment P0 = control (without the use of mangrove leaf extract); P1 = 100 ppm mangrove leaf extract; P2 = 200 ppm mangrove leaf extract; P3 = 400 ppm mangrove leaf extract and repeated 3 times. Parameters of this research include the amount of erythrocyte, amount of leukocyte, feed conversion, life survival, and quality of water. The results showed that the mangrove leaf extract (*Rhizophora sp*) have a significant effect ($P < 0.05$) to the average value of total erythrocytes and leukocytes carpseed post infection *Aeromonas hydrophila* bacteria, and itlife survival. But, no significant effect on feed conversion. The concentration of 200 ppm of mangrove leaf extract (*Rhizophora sp*) is the most effective concentration to increase the value of the average total leucocyte carp seed infected bacteria *Aeromonashydrophila*.

Keywords: Fitobiotik *Rhizophora sp.*, Leukocytes, erythrocytes, carp seed (*Cyprinus carpio*), *Aeromonas hydrophila* bacteria

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