

**EFFECTS OF JERUJU LEAVES EXTRACT (ACANTHUS ILICIFOLIUS)
ON SANGKURIANG CATFISH (CLARIAS GARIEPINUS) INFECTED WITH AEROMONAS
HYDROPHILA: CLINICAL SYMPTOMS AND DIFFERENTIAL LEUKOCYTES**

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ABSTRACT

This study aimed to determine the effect of ethanol extract of *jeruju* leaves on clinical symptoms and differential leukocytes of sangkuriang catfish infected with *Aeromonas hydrophila*. This research was conducted experimentally using a completely randomized design (CRD) consisting of five treatments and three replications. Sangkuriang catfish infected with *A. hydrophila* at a dose of 10^8 cells/mL via intraperitoneal injection. Then, the infected fish were treated with ethanol extract of *jeruju* leaves with concentrations A = 0 mg/L, B = 62.5 mg/L, C = 125 mg/L, D = 250 mg/L and K = control. Parameters observed were clinical symptoms and differential changes in leukocytes, including neutrophils, monocytes, lymphocytes, basophils, and eosinophils. The clinical symptoms of fish infected with *A. hydrophila* after being given *jeruju* leaves extract (according to the treatment concentration) recovered faster than those without the extract (K). The differential leukocytes showed the highest percentage of neutrophils and monocytes at 250 mg/L, basophils at 62.5 mg/L, the highest eosinophils at 125 mg/L, and the percentage of lymphocytes did not differ between treatments. It can conclude that the extract concentrations of 125 and 250 mg/L were effective in stimulating differential leukocytes of sangkuriang catfish, which was indicated by an increase in the percentage of neutrophils and monocytes.

KEY WORDS

Sangkuriang catfish, hematology, differential leukocytes, *jeruju*, *A. Hydrophila*.