DESCRIPTION OF TOTAL NUMBER AND DIFFERENTIAL COUNTED LEUKOCYTES OF *Aeromonas hydrophila* INFECTED GOLDFISH (*Cyprinus carpio* Linn) GIVEN SAMBILOTO (*Andrographis paniculata*) LEAF EXTRACT

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**ABSTRACT**

This research aimed to reveal positive effects of immersion Sambiloto leaf extract on description of total number and differential counted leukocyte of *Aeromonas hydrophila* infected goldfish. This research used six different groups of treatments, control (P0), extract Sambiloto leaf (P0+), infected by *Aeromonas hydrophila* (P0-), *Aeromonas hydrophila* infection following extract Sambiloto leaf 100 ppm, 200 ppm, and 300 ppm respectively. Infection of *Aeromonas hydrophila* used immersion by $10^6$ CFU/ml on 5 L water for 3 days. Data were analyzed with Anova (Analysis of Variant) and followed by Duncan Test. Research show there were no significant difference between P3 and P0 (p>0,05) and P0 with P0-, P0+, P1, and P2 are significant (p<0,05) on all observation (leukocyte, heterofil, lymphocyte, monocyte, and eosinofil). In conclusion, treatments with leaf extract Sambiloto 100 ppm, 200 ppm, and 300 ppm decreased total number and differential counted leukocyte of *Aeromonas hydrophila* infected goldfish.

**Keywords**: Sambiloto (*Andrographis paniculata*) extract, *Aeromonas hydrophila*, total number and differential counting leukocyte.