Abstract

Ketapang leaves have been recognised to be a potential bactericidal on various kinds of bacteria. This research aims to find out the clear zone diameter of each concentration of ketapang leaves extract, minimum concentration of ketapang (T. catappa) leaves extract which potential to inhibit A. salmonicida bacteria and minimum concentration of T. catappa leaves extract which potential to kill A. salmonicida bacteria.

The parameter on this research is clear zone diameter, value of Minimum Inhibitory Concentration (MIC), also value of Minimum Bactericidal Concentration (MBC). The data of clear zone diameter was analyzed statistically using ANOVA, and total colony on tube dilution test was analyzed descriptively.

The result of disk diffusion test showed that extract of ketapang leaves with different concentration influence significantly the diameter size of clear zone. The best value was obtained in concentration of 400 mg/ml, with average of clear zone diameter was 23,167±0,764. MIC value that was obtained in tube dilution test was 440 mg/ml, while MBC value was 480 mg/ml.

Keywords: Aeromonas salmonicida, antibacterial, leaves extract, Terminalia catappa.