ABSTRACT

At Muara Rupit State High School, the learning process of students still uses textbooks and the teacher's summaries are considered less than optimal in the teaching process, so this encourages researchers to see the need for a study regarding the validity of the learning media provided in this booklet regarding eubacteria material, wrong The other is pathogenic bacteria that can cause infectious diseases. Long-term use of antibiotics can cause a number of problems, including bacterial resistance and increased antibiotic side effects. Therefore, alternative treatment is needed to treat this infectious disease by using natural medicinal plants such as the (Moringa oleifera L.). The problem that will be discussed in this research is whether there is an effect of (Moringa oleifera L.) leaf extract on the growth of Salmonella typhi bacteria. This type of booklet development research uses the ADDIE development model and experimental research uses the true experimental laboratory method. Hypothesis testing with a confidence level of 5% (0.05) shows that F count is 119,791 > F table 3.48, so it is found that F count > F table, so H0 is rejected and H1 is accepted. So the results of the One Way Anova test (Test F) showed the effect of Moringa oleifera L. leaf extract on the growth of Salmonella typhi bacteria and continued to the Duncan test stage, the results showed that there were similar notations between the positive control and the 25% concentration which were not significantly different. Meanwhile, in the comparison of concentrations of 50% and 75%, there was a significant difference compared to the comparison of the negative control with the lowest value.

Keywords: Anti -Bacteria, Booklets, Moringa Plants.