

TEST FOR ANTIBACTERIAL ACTIVITY OF ETHANOLIC EXTRACT BANANA'S STEM AND BARK (*Musa parasidiaca var. Sapientum*) TO THE GROWTH OF *Escherichia coli* BY *in vitro* METHOD

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ABSTRACT

The aim of this research was to find out the effect of giving banana stem and bark extract of *Musa parasidiaca var. sapientum* to the growth of *E.coli*, whether the extract inhibit or killing bacteria. The research used experimental method, it was proved by *in vitro* antibacterial test using dilution method. The extraction was conducted using maceration method. Viscous extracts were diluted using 10% dimethyl sulfoxide. Those extracts were then divided into three separate groups; K (control), P(bark) and B(stem). This research uses 6 treatments of the concentrations 100%, 75%, 50%, 25%, 12.5% and 0% (control) respectively. *E. coli* suspension of 1 Mc farland was administered to each group. The results of this research showed that the extracts influence inhibiting or killing *E. coli*. The stem extract concentration of 50% are better killing effect compared to that of 100% on both concentration. Stem extract is better than bark extract.

Key words: *Musa paradisiaca var.sapientum*, *E. coli*.