ABSTRACT

Farah Tsabitatun Nafi'ah. 24020218140014. Antimicrobial Activity Test of Anting-Anting (*Acalypa indica*) **Ethanol Leaf Extract Against** *Fusarium oxysporum* **and** *Escherichia coli***. Supervised by Sri Pujiyanto and Susiana Purwantisari.**

Anting-anting (*Acalypha indica*) is a traditional medicinal plant with potential as a natural antimicrobial agent. The leaves of anting-anting contain several active compounds, including secondary metabolites such as alkaloids, steroids, flavonoids, and tannins, which have been reported to exhibit antimicrobial properties. This study aims to determine the activity of ethanol extract from anting-anting leaves in inhibiting the microbes *Fusarium oxysporum* and *Escherichia coli*. The research was conducted using the Kirby-Bauer diffusion method and the well diffusion method, with three repetitions, applying concentrations of 15%, 20%, 25%, 30%, and 100% of the anting-anting leaf extract. The positive control for *F. oxysporum* used nystatin, while *E. coli* used chloramphenicol, and the negative control for both used 10% DMSO. The results of the study indicated that the anting-anting ethanol leaf extract showed no clear zones for *F. oxysporum* in all treatments and repetitions. For *E. coli*, all concentrations did not produce clear zones, except 100% concentration produced a clear zone diameter of 9.5 mm. The antimicrobial activity of the ethanol extract of anting-anting leaves against *F. oxysporum* and *E. coli* indicates weak inhibitory activity.

Keywords: antimicrobial, *Acalypha indica*, *Fusarium oxysporum*