

**ANTIBACTERIAL ACTIVITY OF (*Tithonia diversifolia*) LEAF EXTRACT
ON *Staphylococcus aureus***

Muhammad Afif Habibi

ABSTRACT

The aims of this study was to know about the antibacterial activity of Kembang Bulan (*Tithonia diversifolia*) leaf extract against *Staphylococcus aureus*. This study used eight isolated of *S. aureus* bacteria isolated from three dairy farms Surabaya. Samples of this study used *Tithonia diversifolia* leaf extract with concentration 10%, 5%, 2.5%, 1.25% and 0%. This study used disk diffusion method, and inhibition zone measured in millimeters to determine the antibacterial activity of *Tithonia diversifolia* leaf extract. Based on the result of this study, showed that eight samples (100%) are positive has antibacterial activity against *S.aureus* with 5% and 10% concentration of *Tithonia diversifolia* leaf extract due to the presence of sesquiterpenes in *Tithonia diversifolia* that has antibacterial activity. Meanwhile *Tithonia diversifolia* leaf extract with 0%, 1.25% and 2.5% did not showing any antibacterial activity against *S.aureus*.

Key words : *S.aureus*, *Tithonia diversifolia*, Antibacterial .