

**ANTIBACTERIAL ACTIVITY OF NONI FRUIT (*Morinda citrifolia* L.)
EXTRACT AGAINST *Staphylococcus aureus* CAUSES MASTITIS IN
DAIRY COWS**

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ABSTRACT

The aims of this study was to determine the antibacterial activity of noni fruit extract against *Staphylococcus aureus*. Benefits of this study were inform to the public about using noni fruit extract as an antibacterial against *Staphylococcus aureus*. The noni fruit were obtained from market and extracted by maceration method. *Kirby Bauer* diffusion method was used for sensitivity test of the bacteria. The noni fruit extract were used with 3 replications, all the concentration of noni fruit extract were 10% (P1), 20% (P2), 30% (P3), 40% (P4), 50% (P5), 60% (P6), 70% (P7), 80% (P8), 90% (P9), and 100% (P10) and to determine the antibacterial activity was used dilution method for determining the grade *Minimal inhibitory Concentration (MIC)* and *Minimal Bactericidal Concentration (MBC)*. The results showed that noni fruit extract has strong antibacterial activity and has a bacteriostatic activity with MIC grade 40%.

Keywords: noni fruit extract, antibacterial activity, MIC, MBC