ANTIBACTERIAL POTENCY OF *Sapindus rarak* DC EXTRACT TO *Staphylococcus aureus* BACTERIA IN VITRO

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ABSTRACT

The purpose of this research was to found the antibacterial potency of *Sapindus rarak* DC extract to *Staphylococcus aureus* according to the clear zone around sumuran based on diffusion method. This research used complete randomized design factorial. P-as the negative control which was given CMC-Na1%, P+1 which was given Chlorhexidine Gluconate and P+2 given with Betadine, P1 which was given *Sapindus rarak* DC extract 5 gr and CMC-Na 1% solution 20 ml (25%), P2 which was given *Sapindus rarak* DC extract 10 gr and CMC-Na1% solution 20 ml (50%), P3 which was given *Sapindus rarak* DC extract 15 gr and CMC-Na 1% solution 20 ml (75%), P4 which was given *Sapindus rarak* DC extract 20 grant CMC-Na 1% solution 20 ml (100%). The result showed that the average diameter of clear zone on P; P+1; P+2; P1; P2; P3; and P4 respectively were 5.00; 25.40;13.60;14.00;15.20; 16.0 ;17.20. Based on the research result, it could be concluded that *Sapindus rarak* DC extract has antibacterial potency to *Staphylococcus aureus*. Minimum concentration of *Sapindus rarak* DC extract which has antibacterial potency to *Staphylococcus aureus* was 25%.

**Keywords**: *Sapindus rarak* DC, *Staphylococcus aureus*, Chlorhexidine Gluconate, Betadine, Clear zone