THE EFFECTIVENESS OF ANTIBACTERIAL ESSENTIAL OIL OF CINNAMON BARK (Cinnamomum burmannii) ON Staphylococcus aureus

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ABSTRACT

Cinnamon plants (Cinnamomum burmannii) besides being used as a spice in cooking, it also has benefits as a medicine. Essential oil is an active ingredient found in cinnamon plants (Cinnamomum burmannii) and can be found in parts of cinnamon bark. The content of the cinnamaldehyde and eugenol compounds contained in cinnamon essential oil is known to have antibacterial properties. Staphylococcus aureus is a pathogenic bacterium that can cause infectious diseases in humans and animals. The purpose of this study was to determine the antibacterial effect of essential oils of cinnamon bark (Cinnamomum burmannii) on Staphylococcus aureus isolated from the diary cows milk. This study was an experimental laboratory with the three repetitions, and consisted of 6 treatments with positive control of tetracycline, the negative control of 70% ethanol and essential oil concentration of 1%, 2%, 4%, and 8% on Staphylococcus aureus bacteria using the disc diffusion method. The finding showed that at a concentration of 2%, 4%, dan 8% the essential oil of cinnamon bark (Cinnamomum burmannii) showed the zone of inhibition on Staphylococcus aureus. Based on the result, it can be concluded that the essential oil of cinnamon bark (Cinnamomum burmannii) has an antibacterial effect on Staphylococcus aureus.

Key words: Essential oil of cinnamon bark, Antibacterial, Staphylococcus aureus