

ABSTRACT

ANTIBACTERIAL ACTIVITY OF *Ganoderma lucidum* AGAINST THE BACTERIA *Salmonella typhi*

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*Indonesia is a country with very high biodiversity. The country of Indonesia has fertile soil because of its geographical location in the tropics, so it has a lot of agricultural products, one of which is mushroom plants. *Ganoderma lucidum* is a fungus that is widely used for research both in terms of biological activity and pharmacological effects. *Ganoderma lucidum* is a very valuable source of biologically active substances that can be used as antibacterial or antimicrobial agents. This study aims to determine the antibacterial activity of *Ganoderma lucidum* against *Salmonella typhi* bacteria with various solvents in the disc diffusion method. The design of this study is a literature review. Researchers searched for manuscripts through official databases and library sources relevant to the research topic. The number of articles that were resumed were 3 national articles and 2 international articles.*

*Based on the results of the five articles, it is known that the extract of lingzhi mushroom (*ganoderma lucidum*) can inhibit the growth of *Salmonella sp.* The largest inhibition zone with a strong category of 20.60 mm was obtained using the paper disc diffusion antibacterial test method. The extraction method used is soxhletation with an extract concentration of 40µg/ml and using acetone as a solvent. The smallest inhibition zone in the very weak category of 0 mm was obtained with an extract concentration of 50mg/ml using the paper disc diffusion method and ethylacetate solvent. It is necessary to retest to compare the antibacterial activity of *Ganoderma lucidum* extract against *Salmonella typhi* bacteria with different types of solvents and concentrations.*

Keywords: *Ganoderma lucidum, Salmonella typhi, paper disc diffusion, soxhletasi, acetone.*