

**ANTIBACTERIAL ACTIVITY OF EXTRACT OF GUAVA LEAVES
(*Psidium guajava* L.) AGAINST BACTERIA *Salmonella* Ser. Pullorum IN
VITRO**

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ABSTRACT

The guava leaves (*Psidium guajava* L.) was known have several active substances such as tanins, flavonoids and saponins. Which are potential as antimicrobial agents. The aim of this research is to prove the effectivity of extract of guava leaves as an antimicrobial against *Salmonella* Ser. pullorum in vitro. Dilution method with eleven concentrations and two controls was used in this research to determine Minimum Inhibitory Concentration (MIC) and continued by streaking on *Salmonella-Shigella Agar* (SSA) to determine Minimum Bactericide Concentration (MBC). The treatment used were : 0,10 g/ml, 0,09 g/ml, 0,08 g/ml, 0,07 g/ml, 0,06 g/ml, 0,05 g/ml, 0,04 g/ml, 0,03 g/ml, 0,02 g/ml, 0,01 g/ml, and 0,005 g/ml. control negative and control positive which used antibiotic oxytetracycline, each treatment repeted with 4 repetitions respectively. The obtained data showed that the ectract of guava leaves has antimicrobial effect to *Salmonella pullorum* with the Minimum Bactericide Concentration (MBC) is 0,03 g/ml

Key words : extract of guava leaves, sensitivity, antibacteria, *Salmonella pullorum*