

DAYA ANTI BAKTERI EKSTRAK KULIT NANAS (*Ananas comosus*) TERHADAP PERTUMBUHAN BAKTERI *Enterococcus faecalis*

(ANTIBACTERIAL POTENCY OF PINEAPPLE PEEL EXTRACT (*Ananas comosus*) ON *Enterococcus faecalis* GROWTH)

ABSTRACT

Background: Root canal infections is caused by the colonization of microorganisms. Microorganisms that commonly found in root canal failure is *Enterococcus faecalis*. These bacteria can be found in 80-90% of root canal infections. Currently, many plants are used as antibacterial drugs. Pineapple is one plant that can be used as antibacterial drugs. Pineapple peel has a variety of antibacterial chemical compounds, such as, bromelain, saponins, tannins and flavonoids that can inhibit the growth of *Enterococcus faecalis* bacteria. **Aim:** To obtain concentration of antibacterial from pineapple peel extract on *Enterococcus faecalis* growth. **Methods:** This study was an experimental laboratory with Post Test Only control group design using *Enterococcus faecalis* ATCC 29212 bacteria that were diluted based on Mc. Farland standard 1.5×10^8 CFU / ml with pineapple peel extract treatment concentration of 100%, 50%, 25%, 12.5%, 6.25%, 3.125%, 1.56%, 0, 78% and then planted in nutrient agar media surface evenly. **Results:** At concentration of 3.125% pineapple peel extract showed that the growth of colonies was less than 90% of positive control and concentration of 6.25% pineapple peel extract had no visible *Enterococcus faecalis* bacteria growth as much as 99.9%. **Conclusion:** The pineapple peel extract (*Ananas comosus*) have antibacterial power on the growth of *Enterococcus faecalis* bacterial colonies with Minimal Inhibitory Concentration (MIC) of 3.125% and the Minimum Bactericidal Concentration (MBC) of 6.25%.

Key words: Pineapple peel extract (*Ananas comosus*); *Enterococcus faecalis*; Antibacterial