

**DAYA HAMBAT EKSTRAK DAUN SIRIH MERAH (*Piper crocatum*)
TERHADAP PERTUMBUHAN BAKTERI PLAK GIGI
(Eksperimental Laboratoris)**

SKRIPSI



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***MINIMUM INHIBITORY CONCENTRATION OF
THE EXTRACT RED BETEL VINE (*Piper crocatum*)
TOWARD TEETH PLAQUE BACTERIA GROWTH
(A.Laboratory Experimental)***

ABSTRACT

Background of choosing the subject: In recent years world society including Indonesia tend to consider the use of herbal medicine back to nature. The advantages of herbal medicine become an interesting discussion. Most information expand in society is empirical rather than scientific evidence. Thus red betel vine's benefit also become interesting discussion but evidence based medicine about it is very little. The purpose of this study is to know the potency of antibacterial power of extract red betel vine (*Piper crocatum*) toward teeth plaque bacteria growth.

Research methodology: This research was laboratory experimental study. The extract of red betel vine was maade with n-hexana, ethilacetate, and ethanol solvent. This extract was examined in teeth plaque bacteria. Experimental method is difution with 12 samples. Result was analyzed descriptively with Minimum Inhibitory Concentration.

Result: The result shown that extract of red betel vine (*Piper crocatum*) has ability ti kill Gram positive bacteria on concentration 25%, 50%, and 100% but it don't have ability to kill Gram negative bacteria.

Conclusion: The extract of red betel vine (*Piper crocatum*) has antibacterial effect specifcly toward Gram positif bacteria.

Keyword: The extract of red betel vine (*Piper crocatum*), teeth plaque, inhibition zone.