

Efikasi ekstrak etanol temulawak teridentifikasi dalam mengeradikasi biofilm streptococcus sanguinis dan porphyromonas gingivalis = Efficacy of Java turmeric ethanol extract identified in eradicating streptococcus sanguinis and porphyromonas gingivalis biofilm

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Abstrak

[ABSTRAK

Temulawak merupakan tanaman obat asli Indonesia yang diketahui memiliki aktivitas antibakteri dan antibiofilm. Tujuan penelitian adalah menganalisa efikasi ekstrak etanol temulawak teridentifikasi (EETT) dalam mengeradikasi biofilm S.sanguinis dan P.gingivalis. Metode Biofilm assay: biofilm S.sanguinis, P.gingivalis, dan kombinasi keduanya dalam berbagai fase pembentukan biofilm dipaparkan ekstrak etanol temulawak pada konsentrasi 0,5%-25% selama 1 jam. Persentase eradikasi biofilm dinilai dengan menggunakan MTT assay. Hasil menunjukkan efikasi EETT dalam mengeradikasi biofilm setara Chlorhexidine terhadap fase awal pembentukan biofilm. EETT lebih efektif terhadap biofilm S.sanguinis dibandingkan biofilm P.gingivalis. Sehingga disimpulkan ekstrak etanol temulawak mampu mengeradikasi biofilm S.sanguinis dan P.gingivalis;

ABSTRACT

Java turmeric was a Indonesia's native medicinal plant which's known have an antibacteria and antibiofilm activity. Purpose this research is to analyze the efficacy of java turmeric ethanol extract identified (JTEEI) in eradicating S.sanguinis and P.gingivalis biofilm. Method Biofilm assay: single and combination biofilm on different phase biofilm formation will exposed by JTEEI at concentration 0,5%-25% for 1h. The percentage of eradication was tested with MTT assay. Result efficacy JTEEI in eradicating biofilm is equal Chlorhexidine against early phase of biofilm formation. JTEEI more effective against S.sanguinis biofilm than P.gingivalis biofilm. Conclusion is JTEEI can eradicate S.sanguinis and P.gingivalis biofilm, Java turmeric was a Indonesia's native medicinal plant which's known have an antibacteria and antibiofilm activity. Purpose this research is to analyze the efficacy of java turmeric ethanol extract identified (JTEEI) in eradicating S.sanguinis and P.gingivalis biofilm. Method Biofilm assay: single and combination biofilm on different phase biofilm formation will exposed by JTEEI at concentration 0,5%-25% for 1h. The percentage of eradication was tested with MTT assay. Result efficacy JTEEI in eradicating biofilm is equal Chlorhexidine against early phase of biofilm formation. JTEEI more effective against S.sanguinis biofilm than P.gingivalis biofilm. Conclusion is JTEEI can eradicate S.sanguinis and P.gingivalis biofilm]