ABSTRACT

Background. Cocoa bean contains polyphenol that has been known for its antibacterial and antioxidant effect. Objective. The aim of the present study was to know inhibitory effect of cocoa bean extract against Aggregatibacter actinomycetemcomitans growth. Method. This research was an experimental study with post test control group only design. The sample of this experimental study was extract of cocoa bean. The antibacterial activity test uses diffusion method, these were divided into 8 test group with concentration 100%, 50%, 25%, 12.5%, 6.25%, 3.125%, 1.56%, 0.78%, and positive control. Statistic analysis was done by One-Way Anova Test. Result. The result of antibacterial activity, Minimum Inhibitory Concentration (MIC) significant from the concentration 25% (p=0.580). Conclusion. The result of inhibitory effect were effective for Aggregatibacter actinomycetemcomitans growth. MIC for Aggregatibacter actinomycetemcomitans growth was 12.5% v/v. Keywords: cocoa bean, Aggregatibacter actinomycetemcomitans, antibacterial effect, MIC