

***Centella Asiatica* EXTRACT AS A PREBIOTIC WITH DIFFERENT DOSE
LEVEL FOR INCREASING THE
GROWTH OF BACTERIA *Lactobacillus acidophilus***

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ABSTRACT

The purpose of this research is to determine the effect of pegagan (*Centella asiatica*) leaf extract with different dose level for increasing the growth of *Lactobacillus acidophilus* bacteria. This study used pegagan (*Centella asiatica*) leaf extract and bacteria *Lactobacillus acidophilus* then divided into 4 groups consisting of control treatment (P0), P1 treatment of pegagan (*Centella asiatica*) leaf extract dose of 1%, P2 treatment of (*Centella asiatica*) leaf extract dose of 2%, P3 treatment of (*Centella asiatica*) leaf extract dose of 3%. At the end of treatment, each colony is calculated using the method *Total Plate Count*. The data obtained were analyzed using ANOVA then followed by Duncan test. The results showed that pegagan (*Centella asiatica*) leaf extract at a dose of 1%, 2%, 3% can increase the growth of bacteria *Lactobacillus acidophilus*. The average growth of bacteria *Lactobacillus acidophilus* in the treatment of P0 was 7 log 32.33 followed by P1 treatment of 7 log 64.83, and P2 treatment was 7 log 84.0 while the highest was found in P3 treatment of 7 log 147, 33.

Key words : *Centella asiatica*, *prebiotic*, *Lactobacillus acidophilus*