

THE EFFECT OF BAY LEAF (*Eugenia polyantha*) EXTRACT IMMERSION
ON THE TOTAL BACTERIAL COUNT IN GREEN MUSSEL (*Perna viridis*)

PRIBADI MUHAMMAD YULIYANTO

ABSTRACT

The aim of this research was to know the effect of the bay leaves (*Eugenia polyantha*) extract immersion to fresh green mussel based on Total Plate Count (TPC). Samples which were bought from fisherman in Kenjeran beach. The research method was completely randomized design by using four of ethanol extracts of bay leaves were configuration 0% (P₀), 5% (P₁), 10% (P₂), 15% (P₃) and TPC conducted on the 0 hours (J₀), 6 hours (J₆) and 12 hours (J₁₂). The obtained data were analyzed by ANOVA and Duncan test. The results do not showed that the significantly ($p < 0.05$) of total plate count up on the 0 hour and six hour after immersion, but in twelve hours, the results showed that the significantly ($p < 0,05$) seen from treatment with 5% bay leaf extract and 10% bay leaf extract which is checked 12 hours after immersion. In this research, the results are the treatment of bay leaves extract cannot hamper a bacterial growing optimally seen from treatment with 5% bay leaf extract, 10% bay leaf extract and 15% bay leaf extract which is checked 6 hours after treatment, but the treatment with 5% and 10% bay leaf extract can hamper a bacterial growing which is checked 12 hours after treatment.

Keywords : Bay leaf extract, Green mussel and Total Plate Count