

ABSTRACT

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THE DIFFERENCES OF LIME PEEL EXTRACT (*Citrus amblycarpa*)
AS A REPELLENT (REPELLENT) AGAINST THE *Culex Sp* MOSQUITO
ix + 58 pages + 13 table + 7 pictures + 3 attachments

Culex Sp mosquito is an insect that is commonly found around us, *Culex sp* mosquito acts as a vector of filariasis / elephantiasis. Efforts to eradicate the Filariasis disease until it is no longer a public health problem. The most popular effort at this time to avoid contact with mosquitoes is the use of chemical poisons, including repellent ingredients / *repellent*. This study aims to determine the effect of variations in the concentration of lime peel extract (*Citrus amblycarpa*) as a *repellent* power against the *Culex sp* mosquito.

This type of study is an analytical study with a *Quasi Experimental* design by providing variations in the concentration of lime peel extract (*Citrus amblycarpa*) 15%, 20%, 25%, 30%, 35% on experimental media each containing 20 *Culex sp* mosquitoes for 5 minutes.

The results of this study note that the number of mosquitoes that do not alight at 15% concentration is 62%, the concentration of 20% is 54%, the concentration of 25% is 55%, the concentration of 30% is 64%, the concentration of 35% is 64% of the 20 mosquitoes tested at each concentration and replication was carried out 5 times. *One Way Anova* statistical test results showed there were differences in the concentration variation of lime peel extract against the number of *Culex sp* mosquitoes that did not alight with the calculated F value of 0.793 with a significant value of 0.543.

It can be concluded that the concentration of 35% is the most effective concentration variation as a *repellent* for *Culex sp* mosquitoes which is equal to 64%. This study suggestion needs to be increased by reaching 100%.

Keywords : Concentration, *Culex sp*, Lime
Literature : 17 readings (2009 - 2019)