

**THE POTENCY OF LOMBOK HONEY IN CONTROLLING
TOXOPLAMOSIS IN MICE (*Mus musculus*)**

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ABSTRACT

Honey is a particular product in the form of natural sugar substance that has various benefits for health. In the infection case that is caused by the parasite, especially *Toxoplasma gondii*, there has never existed some report that use honey as a material for the prevention. The goal of this research is to determine the effect of honey towards mice which is infected by *T. gondii*, both to maintain vitality and increase the weight while protect the liver from apoptosis. In this research, mice were divided into 6 treatment groups. P0 was not infected by *T. gondii* and was not given the honey, P1 was not given the honey, P2 and P3 was given the trigona honey 0.08 ml and 0.12 ml, P4 and P5 was given cerana honey 0.08 ml and 0.12 ml. Five treatment groups (P1 - P5) was infected by *T. gondii* 10^3 . Four days after being infected, the mice were being sacrificed. After wards, the liver is stored in a 10% formalin buffer and subsequently performed a process for TUNEL ASSAY. The results showed that honey had no significant effect towards weight that was being infected by takizoit *T. gondii*. At the energy of life, the most visibly different honey towards its effect on the length of mice life is coming from the type of trigona honey. The most influent honey towards the apoptosis is coming from the type of cerana honey with a concentration of 0.12 ml or equal to three tablespoons for humans.

Keyword : Honey, *Toxoplasma gondii*, Apoptosis