

ABSTRACT

THE EFFECT KOMBUCHA OF ROSELLA (*Hibiscus sabdariffa*) AGAINST BLOOD CHOLESTEROL CONTENT IN MOUSE (*Mus musculus* Linn.)

By

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Kombucha is fermentation product from black tea or green tea with sugar by several microorganism. Nowadays kombucha is also made from the kind of tea which made by lid flower of rosella. Antosianin is a natural pigmen that give a red colour in rosella tea and have strong antioxydant properties. Kombucha of rosella have an active antosianin substance which able to bound blood cholesterol so can increase disgestion function, loosing weight, stabilize glucose substance in blood, increase immune system and secretion toxic from body.

This research was aimed to know the effect kombucha of rosella to blood cholesterol substance of mouse (*Mus musculus* Linn.). The hypotesis that given was the giving of kombucha of rosella can decrease blood cholesterol substance of mouse (*Mus musculus* Linn.). This research is compiled in complete group random design. Gained data analyzed by ANARA. Manner equality continued with BNT test at level 5%.

The result showed that high doses of kombucha of rosella that given to mouse increased the decreasing blood cholesterol substance of mouse. Blood cholesterol

of mouse that given by kombucha rosella made out a cholesterol substance around 100,67 mg/dL to 154,67 mg/dL. The dose of 0,6 g/kg Body Weight was the optimal dose to decrease cholesterol substance until 122 mg/dL. A normal cholesterol substance of mouse is 126 mg/dL.

Keywords : rosella, *Hibiscus sabdariffa*, kombucha, cholesterol.