GLUCOSE AND TRIGLYCERIDES CONTENT OF DUCK BLOOD AS THE EFFECT OF KOMBUCHA FERMENTED TEA

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ABSTRACT

Inhibition of the body's synthesis of cholesterol in the liver and muscle tissue to will determined the content of glucose and triglycerides in the blood. Previous research showed that Kombucha fermented tea up to 100ml or about 25% of drinking water can increase high-density lipoprotein (HDL) and lowering low density lipoprotein (LDL) and also total cholesterol of duck blood. Kombucha tea is a fermented tea beverage produced by fermenting sugared black tea with tea fungus (kombucha). Kombucha is tea polyphenols which includes epicatechin glucoronate acid, and niasin that have been reported to possess various biological activities. The objective of this study was to test the influence of Kombucha fermented tea of glucose and triglyceride content of duck blood. This research was conducted using experimental methods with a Completely Randomized Design (CRD). Rations and drinking water provided ad libitum. Kombucha fermented tea was fed orally for 30 days (every morning) using five different doses. Those five doses acts as five treatments (control = R0 (normal), R1=40ml, R2=60ml, R3=80ml and R4=100ml doses of Kombucha fermented tea) with four replications. The results showed that blood triglycerides were decreased significantly with all treatments compared to the control. The lowest blood triglycerides were found in R4 or by increasing doses of Kombucha fermented tea about 100 ml is about 107.47 mg/dl. However, there were no significant difference of blood glucose value were found between all treatments. It can be concluded that Kombucha fermented tea could influence (reduce) the body’s synthesis of lipid in general include cholesterol, lipoprotein, and triglycerides.

Keywords: Kombucha tea, glucose, triglycerides, ducks blood.