

## ABSTRACT

Rarangsari, Novi Endah. 2015. The leaf soursop (*Annona muricata* L.) Extract Effect on SOD and liver histology rat (*Rattus norvegicus*) induced by alloxan. Thesis Biology Department, Faculty of Science and Technology, State Islamic University (UIN) Maulana Malik Ibrahim Malang. Biology Lector: Kholifah Holil, M.Si; Lector Religion: Umayiyatus Syarifah, MA.

Keywords: Leaves soursop (*Annona muricata* L.), diabetes mellitus, alloxan, rat

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Soursop (*Annona muricata* L.) is a tropical plant that all parts of the plant can be used as an alternative medicine various diseases one of them as an antidiabetic, because these plants contain active compounds are flavonoids as antihypoglycemic. This study aims to determine the effect of leaf extract of soursop (*Annona muricata* L.) on SOD, weight and liver histology rat (*Rattus norvegicus*) induced by alloxan.

This study is an experimental study using a completely randomized design (CRD) with 4 treatments 3 replications. Some of these treatments are alloxan induced rat 120 mg / kg, followed by administration of a dose of soursop leaf extract 0mg / KgBW (K +), 50mg / KgBW (P1), 100 mg / KgBW (P2) and 150mg / KgBW (P3). Experimental animals used were male rats of wistar strain white, 2 months old with a weight of 200 grams. Parameters measured were SOD, histology broad central vein, sinusoids and normal cells and abnormal rat liver hepatocytes. Data SOD, broad central venous and hepatocyte cell counts were analyzed by one-way ANOVA. If there is a real difference followed by Duncan test 5%.

Antidiabetic activity of leaf extract of soursop (*Annona muricata* L.) on alloxan-induced mice did not affect hepatic SOD, histology broad central vein, sinusoids and the number of normal and abnormal cells rat liver hepatocytes. Dose soursop leaf extract optimal in influencing broad central vein is 150mg / kgBW, while the number of hepatocyte cells is 150mg / KgBW.