



**THE EFFECT OF *Dillenia philippinensis* Rolfe. (KATMON) FRUIT  
EXTRACT IN THE BLOOD SUGAR LEVEL OF THE  
ALBINO MICE**

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### Abstract

Three (3) kilograms of *Dillenia philippinensis rolfe*. (katmon) fruits were collected from Mt. Palay-palay. Its fruit extract were given orally at the dose level of 50mg/kg to forty-five (45) albino mice for a period of two weeks. Before and after the administration of varying concentrations (25%, 50%, 75% and 100%) of *Dillenia* fruit extract a drop of blood was collected from the lateral saphenous vein of the mice and was tested for its sugar level by using a random blood sugar test.

A non-parametric and parametric test was used to compare the blood glucose level of the albino mice before and after the administration of *Dillenia* fruit extract. And it showed that even though there is an increase in the blood sugar level of the albino mice treated with varying concentration of *Dillenia* fruit extract only the control group exhibited a significant increase with its calculated t-ratio of 2.97 ( $p < 0.05$ ) and w-ratio of 42.5. And for further analysis, one-way ANOVA and Post-hoc Analysis (Tukey method) was used. The results showed that there were no significant differences among the concentrations of *Dillenia* fruit extract in terms of its effectiveness in lowering or increasing the blood glucose level of albino mice.