



**EFFECT OF *Chrysophyllum cainito* (CAIMITO) LEAF EXTRACT ON  
BLOOD GLUCOSE LEVEL OF ALLOXAN INDUCED MALE  
DIABETIC ALBINO RATS (*Rattus norvegicus*)**

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### ABSTRACT

Diabetes is one of the major chronic diseases that affect individuals globally. Some medications used to cure diabetes are insulin and metformin but both come in high prices. Some use traditional alternatives to counter diabetes and one proposed plant is *Chrysophyllum cainito* or Caimito. This study aimed to investigate the effect of *Chrysophyllum cainito* leaf extracts on the blood glucose level of alloxan induced male diabetic albino rats. For the induction of diabetes, 150mg/kg of body weight of alloxan was dissolved in 5 ml sterile normal saline. This solution was administered intraperitoneally. Diabetes was confirmed after two days via tail snip method and standard glucometer. After two weeks of treatment, the treatment groups showed a significant difference between their post alloxan induction blood glucose level and post treatment blood glucose level. The treatment groups showed a lowering effect on blood glucose level of the male albino rats. Both treatment group 1 and treatment group 2 showed a similar lowering effectivity on the male albino rats. The two leaf extract concentration both showcased a lowering effect on the blood glucose as effective as the control group, metformin. This result suggests that camito leaf extract may contain substances that have similar lowering effect on the blood glucose level of male albino rats as it is to metformin.

Key words: *Chrysophyllum cainito*, Alloxan, Diabetes, Metformin, Alkaloid



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