

THE EFFECT OF GIVING KEMBANG BULAN LEAF (*Tithonia diversifolia*) EXTRACT TO DECREASING THE LEVEL OF BLOOD GLUCOSE OF MENCIT (*Mus musculus*) WHICH ALOKSAN INDUCED

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ABSTRACT

Hyperglycemia is a characteristic complication of Diabetes Mellitus. Treatment of Diabetes Mellitus using chemical drugs such as metformin has side effects that some patients cannot accept. Kembang bulan (*Tithonia diversifolia*) have several active substances that have the potential to reduce blood sugar levels. The purpose of this study was to determine the ability of kembang bulan leaf extract to reduce blood sugar levels in mice induced by alloxan. This study used 30 mice divided into 6 groups with 5 replications. 5 groups were given a dose of alloxan 100mg/KgBB, namely K0 (normal mice), K- (alloxan), K+ (alloxan and metformin 500mg/KgBB), P1 (alloxan and Kembang Bulan extract 100mg/KgBB), P2 (Alloxan and Kembang Bulan extract 500mg/KgBB) and P3 (alloxan and Kembang Bulan extract 1000mg/Kg BB). 5 groups were injection with alloxan for 7 days with an interval of 3 days. The treatment was carried out for 14 days. Data analysis uses average data. The results of this study, P2 and P3 showed a decrease compared to P1. P3 also shows significant results compared to K+. **Key words:** Hyperglycemia, Alloxan, Kembang Bulan leaf extract, *Tithonia diversifolia*

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