

## ABSTRACT

### EFFECT OF ETHANOL EXTRACT OF JENGKOL SEED (*Pithecellobium lobatum* Benth.) ON HDL LEVELS OF WHITE RAT (*Rattus norvegicus*) MALE SPRAGUE DAWLEY STRAINS INDUCED ALLOXAN

By

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Diabetes Mellitus (DM) is a metabolic disease characterized by high level of blood glucose. Untreated DM can cause the decrease of High Density Lipoprotein (HDL) levels. Synthetic drugs to prevent dislipidemia can induce several side effects. The negative effects can be minimalized by using traditional medicine such as Jengkol (*Pithecellobium lobatum* Benth.).

The purpose of this research is to determine the influence of ethanol extract jengkol seed (*Pithecellobium lobatum* Benth.) on HDL levels in blood of the diabetic white rat. This is experimental research with Post Test Only With Control Group Design, using 25 male *Sprague dawley* rats, and were randomized into 3 groups. The negative control group (K-) was given the standard diet. Positive control group (K+) was given the standard diet and induced by 150 mg/kg alloxan. Treatment group 1 (P1) is given a standard diet and induced by 150 mg/kg alloxan and 600 mg/kg of ethanolic extracts of Jengkol seed (EEJS). Treatment group 2 (P2) was given a standard diet and induced by 150 mg/kg alloxan and 900mg/kg of EEJS. Treatment group 3 (P3) was given standard diet and induced by 150 mg/kg of alloxan and 1200mg/kg EEJS. Blood samples were taken through the heart at the end of the 14th days.

The results of this study showed that the average HDL levels were K-(40,40); K (42.80); P1 (41,00); P2 (43,60); P3 (45.00). Kruskal Walis statistical tests, there are no significant difference between group ( $p = 0,915$ ), concluded is extract of Jengkol seed has no effect on HDL levels in male sprague dawley rat induced by alloxan.

**Key words** : Aloxan, HDL, Jengkol