ABSTRACT

THE EFFECT OF ETHANOL EXTRACT OF JENGKOL SEED
(Pithecellobium lobatum Benth.) TO LDL LEVELS IN MALE WHITE RATS
(Rattus norvegicus) SPRAGUE-DAWLEY STRAINS THAT INDUCED BY
ALLOXAN

By

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Diabetes mellitus (DM) is one of the endocrine abnormality that many be found
now. In the illness progression, people with DM, LDL (Low Density Lipoprotein)
levels serum will be increased. The use of conventional hypolipidemic medicines
in a prolonged period can cause side effects.

Jengkol (Pithecellobium lobatum Benth.) has the potential to lowering the level of
LDL. The aim of this research is to find out the effect of giving an extract ethanol
jengkol seeds (Pithecellobium lobatum Benth.) to the LDL level.

This research is experimental research with Post Test Only With Control Group
Design, using 25 white rats Sprague Dawley strains that were randomized into 5
groups. Group K (-) just given standard diet. Group K (+), P1, P2, and P3 induced
alloxant. Then the group P1, P2, and P3 are given ethanol extract jengkol seeds
with a dose of 600 mg/bb, 900 mg/kg, 1200 mg/kg for 14 days. Blood samples
were drawn trough the heart on 14th day. The results of LDL levels ini this
research are group K(-) (6,4 ± 7,635), group K(+) (9,6 ± 4,722), group P1 (19,2 ±
14,36 ), group P2 ( 9,4 ± 4,93 ), and group P3 (10 ± 5,339). By using the one way
ANOVA statistical test (p<0,05), the value is p=0,157. So it can be concluded that
there were no meaningful differences of each group.

Key words : Alloxan, Jengkol, LDL