ABSTRACT

Munawaroh, Lailatul. 2011. The Effect Of Nigella sativa on Transaminase Level (GPT and SGPT) in rats (Rattus norvegicus) Diabetes 
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Keyword : Nigella sativa, Transaminase Levels, Diabetes

Diabetes mellitus is a disease of carbohydrate metabolism disorder characterized by blood glucose levels in excess of normal (Hyperglycemia) and the presence of glucose in urine (Glikosuria). Diabetes mellitus is cause oxidative stress that causes of level of oxidan in body increases. Nigella sativa contain antioxidant compounds that reduce oxidant. The purpose of this experiment was to determine the effect of Nigella sativa extract of transaminase levels in diabetic rats liver.

These was an experiment study using a Randomized Complete Design (RAL) with 5 replications. The treatment used is P0 rats (diabetic rats without administration of Nigella sativa extract), control (normal rats) and diabetic rats fed extracts of Nigella sativa with 2 different doses. The result content of transaminase (GPT and SGPT) were analyzed by analysis of variance (ANOVA) with Two Way Anova Analysis. If the analysis shows a real effect, it will be followed by BNT 1%

The results showed that administration of extract of Nigella sativa to give effect to lower levels transaminse rats liver in rats with diabetes because the result of analysis of statistic showed that Fhitung > Fabel. The average value of GPT levels in diabetic rats (P0) of 115,09 U/l, and the doses of I and II respectively were 79,901 U/l and 50,631 U/l. Similarly, SGPT levels in the delivery of doses of Nigella sativa extracts I and II respectively were 69,076 U / l and 47,374 U/l, which decreased when compared with diabetic rats (P0) is 100,278 U/l. In this research note that the dose of Nigella sativa extract I (1 mg/rat/day) can lower GPT and SGPT levels of diabetic rats and doses II more effective than doses I.