THE EFFECT OF *Spirulina platensis* EXTRACT TO SGOT AND SGPT LEVEL OF WHITE RATS (*Rattus norvegicus*) INDUCED BY ETHANOL

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**ABSTRACT**

The purpose of this study was to determine the effect of *Spirulina platensis* extract to decrease the levels of SGOT and SGPT in Wistar rats induced ethanol. Twenty male rats were divided into five groups containing four rats each. They were two control groups and three treatment groups, which was given 200, 400, and 800 mg/kg BW of *Spirulina platensis* extract orally. For the first seven days each group was given ethanol 50% 2 ml/kg BW except for control groups. On the 8th day, the treatment of ethanol was stopped and then continued with the giving of *Spirulina platensis* extract for the treatment groups and CMC Na 1% solution for control groups for the total of 14 days. Samples were taken at day 22. Then, the data was compared using ANOVA test and duncan’s multiple range test. From the statistical tests showed that the extract *Spirulina platensis* show significant difference (P<0.05) towards decrease levels of SGOT and SGPT. On with significant test duncan’s multiple range test SGOT obtained K- not significantly different from P1, but K- significantly different K+, P2 and P3. SGPT obtained K- not significantly different from K-, P1, P2 and P3 but P1 significantly different P2 and P3 based on the research results can be concluded the effect of *Spirulina platensis* could reduce the levels of SGOT but has not been able to reduce the levels of SGPT white rats (*Rattus norvegicus*) induced by ethanol

**Key words**: *Spirulina platensis*, ethanol, SGOT, SGPT