

Uji potensi hepatoprotektif madu ps pollen substitute terhadap kadar alkali fosfatase alp plasma darah mencit mus musculus l jantan galur ddy = Potential hepatoprotective effect test of honey ps pollen substitute on male ddy mice mus musculus l s alkaline phosphatase level of blood plasma / Cindy Kus Untari

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Abstrak

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Telah dilakukan penelitian yang bertujuan mengetahui potensi hepatoprotektif madu PS terhadap kadar alkali fosfatase (ALP) mencit (*Mus musculus L.*) jantan galur DDY. Dua puluh empat ekor mencit jantan dibagi ke dalam 4 kelompok hewan uji, yaitu kelompok kontrol normal (KK1) yang diberikan akuades dan minyak kelapa; kelompok kontrol perlakuan (KK2) yang diberikan akuades dan CCl<sub>4</sub>; serta 2 kelompok perlakuan (KP1 dan KP2) yang diberikan madu PS 10% dan 20% selama 14 hari berturut-turut, kemudian CCl<sub>4</sub> 2 jam setelah pemberian madu terakhir. Darah diambil 24 jam setelah injeksi CCl<sub>4</sub>. Kadar ALP diukur dengan metode kolorimetri. Hasil uji anova satu arah ( $P < 0,05$ ) menunjukkan adanya pengaruh nyata pemberian madu PS terhadap kadar ALP semua hewan uji. Dibandingkan kadar ALP KK2, kadar ALP KP1 lebih rendah 30,5% dan KP2 lebih rendah 52,9%. Namun, uji LSD ( $P < 0,05$ ) menunjukkan hanya kadar ALP KP2 yang tidak berbeda nyata dengan KK1. Berdasarkan hasil tersebut, disimpulkan bahwa potensi hepatoprotektif madu PS 20% lebih besar dibandingkan madu PS 10%.

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**ABSTRACT**

The study has been conducted to know the hepatoprotective potency of PS honey administration on male-DDY mice's alkaline phosphatase level of blood plasma. Twenty four male mice were divided into four groups, namely normal control group (KK1) which was administered with aquadest and coconut oil; treatment control group (KK2) which was administered with aquadest and CCl<sub>4</sub>; and two treatment groups which was administered with PS honey 10% (KP1) and 20% (KP2) within 14 consecutive days and three groups (KK2, KP1, and KP2) were injected with CCl<sub>4</sub> on the 14th day. Alkaline phosphatase was measured based on colorimetry method. One-way anova test ( $P < 0,05$ ) showed that alkaline phosphatase levels were significantly different. Compared with KK2, the alkaline phosphatase levels of KP1 and KP2 were 30,5% and 52,9% lesser than KK2, consecutively. However, LSD test ( $P < 0,05$ ) showed that only alkaline phosphatase level of KP2 was not significantly different. In conclusion, dose 20% of PS honey is more potential on hepatoprotective than those of 10%.