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

Cindy Kus Untari, author

Abstrak

ABSTRAK
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 CCl4; serta 2 kelompok perlakuan (KP1 dan KP2) yang diberikan madu PS 10% dan 20% selama 14 hari berturut-turut, kemudian CCl4 2 jam setelah pemberian madu terakhir. Darah diambil 24 jam setelah injeksi CCl4. 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%.
<hr>
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 CCl4; 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 CCl4 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%.