

Pengaruh pemberian infusa daun sukun (*artocarpus altilis*) terhadap kadar serum glutamic pyruvic transaminase (SGPT) dan serum glutamic oxaloacetic transaminase sgot tikus *rattus norvegicus* jantan galur sprague dawley yang diinduksi CCl₄ = Effects of breadfruit leaf infusion *artocarpus altilis* intake on serum glutamic pyruvic transaminase sgpt and serum glutamic oxaloacetic transaminase sgot levels of ccl₄ induced in male sprague dawley rats *rattus norvegicus*

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Abstrak

[ABSTRAK

Penelitian telah dilakukan untuk mengetahui pengaruh pemberian infusa daun sukun (*Artocarpus altilis*) terhadap kadar serum glutamic pyruvic transaminase

(SGPT) dan serum glutamic oxaloacetic transaminase (SGOT) tikus (*Rattus norvegicus*) jantan yang diinduksi CCl₄. Sebanyak 30 ekor tikus dibagi ke dalam 5 kelompok, yaitu: kelompok kontrol normal (KK1), kelompok kontrol perlakuan yang diinduksi CCl₄ (KK2), kelompok perlakuan yang diinduksi CCl₄ dan diberi infusa daun sukun dengan tiga dosis larutan yaitu 2,7; 5,4; dan 10,8 g/kg BB (KP1, KP2, dan KP3). Pemberian infusa daun sukun dilakukan sebanyak empat kali dengan selang waktu 12 jam.

Pengambilan darah dilakukan tiga kali, yaitu: sebelum diberikan perlakuan, 12 jam setelah diinduksi CCl₄, dan satu jam setelah pemberian infusa daun sukun yang terakhir. Kemudian dilakukan analisis sampel darah berdasarkan metode IFCC. Data rerata kadar SGPT dan SGOT akhir adalah sebagai berikut: KKI (33,67 ± 5,5) dan (34,83 ± 8,01) U/L; KK2 (131,67 ± 4,76) dan (128 ± 12,93) U/L; KP1 (92,83 ± 3,76) dan (89,17 ± 4,71) U/L; KP2 (71,17 ± 5,15) dan (79,83 ± 10,3) U/L; serta KP3 (50,17 ± 4,17) dan (66,67 ± 7,61) U/L. Hasil uji LSD (P < 0,05) menunjukkan terdapat perbedaan nyata antara kelompok perlakuan dengan kelompok kontrol KK2. Hal tersebut menunjukkan bahwa pemberian infusa daun sukun (*Artocarpus altilis*) berpengaruh terhadap kadar SGPT dan SGOT pada dosis 2,7; 5,4; dan 10,8 g/kg BB.

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<i>ABSTRACT

;The present study was conducted to assess the effects of breadfruit leaf infusion (*Artocarpus altilis*) intake on serum glutamic pyruvic transaminase (SGPT) and serum glutamic oxaloacetic transaminase (SGOT) levels of CCl₄-induced in male Sprague-Dawley rats (*Rattus norvegicus* L.). Thirty male rats were divided into five groups, consisting of normal control group (KK1), treatment control group (KK2) CCl₄- induced, and treatment group, CCl₄- induced and breadfruit leaf infusion in different doses, 2,7; 5,4; dan 10,8 g/kg bw (KP1, KP2, and KP3), respectively. Breadfruit leaf infusion was given orally and administered four times, with an interval of twelve hours. SGPT dan SGOT levels were measured 3 times, before treatment, 12 hours after CCl₄- induced, and one hour after the last breadfruit leaf infusion intake, using IFCC method. Mean of SGPT and SGOT

levels : KKI ($33,67 \pm 5,5$) and ($34,83 \pm 8,01$) U/L; KK2 ($131,67 \pm 4,76$) and ($128 \pm 12,93$) U/L; KP1 ($92,83 \pm 3,76$) and ($89,17 \pm 4,71$) U/L; KP2 ($71,17 \pm 5,15$) and ($79,83 \pm 10,3$) U/L; after that KP3 ($50,17 \pm 4,17$) and ($66,67 \pm 7,61$) U/L. Least significant difference (LSD) ($P < 0,05\%$) test showed a significant effect of treatment. The result demonstrated potential beneficiary effect of breadfruit leaf infusion (*Artocarpus altilis*) for recovery SGPT and SGOT levels of 2,7; 5,4; and 10,8 g/kg bw., The present study was conducted to assess the effects of breadfruit leaf infusion (*Artocarpus altilis*) intake on serum glutamic pyruvic transaminase (SGPT) and serum glutamic oxaloacetic transaminase (SGOT) levels of CCl₄-induced in male Sprague-Dawley rats (*Rattus norvegicus* L.). Thirty male rats were divided into five groups, consisting of normal control group (KK1), treatment control group (KK2) CCl₄- induced, and treatment group, CCl₄- induced and breadfruit leaf infusion in different doses, 2,7; 5,4; dan 10,8 g/kg bw (KP1, KP2, and KP3), respectively. Breadfruit leaf infusion was given orally and administered four times, with an interval of twelve hours. SGPT dan SGOT levels were measured 3 times, before treatment, 12 hours after CCl₄- induced, and one hour after the last breadfruit leaf infusion intake, using IFCC method. Mean of SGPT and SGOT levels : KKI ($33,67 \pm 5,5$) and ($34,83 \pm 8,01$) U/L; KK2 ($131,67 \pm 4,76$) and ($128 \pm 12,93$) U/L; KP1 ($92,83 \pm 3,76$) and ($89,17 \pm 4,71$) U/L; KP2 ($71,17 \pm 5,15$) and ($79,83 \pm 10,3$) U/L; after that KP3 ($50,17 \pm 4,17$) and ($66,67 \pm 7,61$) U/L. Least significant difference (LSD) ($P < 0,05\%$) test showed a significant effect of treatment. The result demonstrated potential beneficiary effect of breadfruit leaf infusion (*Artocarpus altilis*) for recovery SGPT and SGOT levels of 2,7; 5,4; and 10,8 g/kg bw.]