

## ABSTRAK

### EFEKTIVITAS PEMBERIAN SEDUHAN *SINGLE CLOVE BLACK GARLIC* TERHADAP KADAR *SERUM GLUTAMIC PIRUVIC TRANSMINASE* (SGPT) TIKUS PUTIH YANG DIINDUKSI STREPTOZOTOCIN

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**Latar Belakang :** Hati merupakan salah satu organ terpenting dalam tubuh, oleh karena itu kerusakan hati dapat menimbulkan masalah bagi kesehatan. Salah satu penanda adanya kerusakan hati adalah peningkatan kadar *Serum Glutamic Piruvic Transminase* (SGPT). Bahan alami yang diketahui dapat memberikan efek hepatiprotektif terhadap perbaikan kerusakan hati adalah *single clove black garlic*. Penelitian ini dilakukan untuk mengetahui efektivitas dosis pemberian seduhan *single clove black garlic* terhadap kadar SGPT pada tikus putih yang diinduksi streptozotocin.

**Metodologi :** Pada penelitian ini dilakukan eksperimen murni dengan *pretest-posttest with control group design* dengan jumlah total sampel sebanyak 30 ekor tikus putih. Sampel dibagi menjadi 6 kelompok terdiri dari kelompok kontrol sehat, kelompok kontrol negatif, kelompok perlakuan dosis 6,5 g/KgBB, kelompok perlakuan dosis 13 g/KgBB, kelompok perlakuan dengan dosis 26 g/KgBB, dan kelompok yang diberi glibenklamid dengan dosis 0,09 mg/kgBB tikus. Pemberian perlakuan dilakukan selama 14 hari. Kadar SGPT diperiksa sebelum dan setelah pemberian perlakuan.

**Hasil :** Hasil penelitian ini menunjukkan terjadinya penurunan kadar SGPT setelah pemberian seduhan *Single Clove Black Garlic* selama 14 hari. Hasil rerata penurunan ketiga dosis berturut-turut yaitu sebesar  $20,95 \pm 1,01$  U/l,  $17,11 \pm 9,67$  U/l, dan  $22,35 \pm 6,47$  U/l.

**Kesimpulan :** Pemberian seduhan *Single Clove Black Garlic* yang paling efektif untuk menurunkan kadar SGPT yaitu dengan dosis 6,5 g/KgBB.

**Kata Kunci :** Kerusakan Hati, Induksi Streptozotocin, SGPT, *Single Clove Black Garlic*

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## ABSTRACT

### THE EFFECTIVENESS OF A SINGLE CLOVE BLACK GARLIC BREWED ON THE LEVEL OF SERUM GLUTAMIC PIRUVIC TRANSAMINASE (SGPT) IN WHITE RATS INDUCED BY STREPTOZOTOCIN

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**Background :** The liver is one of most important organs in the body, so damage to the liver can cause health problem. One indication of liver damage is the increase in level of *Serum Glutamic Piruvic Transaminase* (SGPT). Natural substance known to provide a hepatoprotective effect on repairing liver damage is the single clove black garlic. The aim of this research is to find out the effects of the single clove black garlic brewed on SGPT level in white rats induced by streptozotocin.

**Method :** This research was conducted by true experiment with pretest-posttest with control group design with control group design. Total sample of white rat are 30 sample. The sample is divided into 6 groups of healthy control groups, negative control groups, dose 6,5 g/KgBW treatment groups, dose 13 g/KgBW treatment groups, dose 26 g/KgBW treatment groups, and groups given glibenklamide with a dose of 0,09 mg/kgBW dose of rats. The treatment was given for 14 days. SGPT level was checked before and after treatment.

**Result :** The result of this research showed that level of SGPT decrease after giving Single Clove Black Garlic brewed for 14 day. The averages of decreasing SGPT level are  $20,95 \pm 1,01$  U/l,  $17,11 \pm 9,67$  U/l, dan  $22,35 \pm 6,47$  U/l respectively.

**Conclusion :** From this research showed that the most effective amount of single clove black garlic to reduce SGPT levels is 6,5 g/KgBW dose.

**Keyword :** Liver Damage ,Streptozotocin induction, SGPT, *Single Clove Black Garlic*

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