PEMANFAATAN FUNGSI ANTI OKSIDAN GAMBIR (*Uncaria gambir*) SEBAGAI HEPATOPROTEKTOR

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ABSTRACT

The aim of the research is to find out the effect of the hepatoprotector from gambier to some rats animal contaminated by carbon tetrachloride (CCl_4). The research was done in Biochemistry laboratory Medical Faculty Andalas University Padang applied to 12 galur wistar rats species in about ± 2 months ages with 170-200 g weight, which are separated into 3 groups (clusters). They are cluster in negative control, in positive control (CCl_4 2 mg/kgBB inductions), and treated cluster (CCl_4 inductions and 10 mg/kgBB gambier given). Statistically analyzed the data by one way Anova test with 95% confidence of degree, the result of the research are pointed to the rate of MDA serum level which is 1.08 ± 0.12 nmol/mL for the cluster in negative control, 4.07 ± 0.45 nmol/mL for positive control cluster, and 3.28 ± 0.46 nmol/mL for treated cluster showed the significant differences between the 3 clusters. The rates of MDA lever level to the cluster in negative control is about 1.80 ± 0.30 nmol/mL, in positive control is about 4.55 ± 0.56 nmol/mL, and the treated cluster is about 3.92 ± 0.22 nmol/mL, from the 3 clusters above shows that there is only the positive control and the treated control has no meaning of purpose. It concluded that the CCl_4 has the hepatotoxite effect with gambier could be functionated as the hepatoprotector.

Key words *: gambier, CCl_4, hepatoprotector, MDA*

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DAFTAR PUSTAKA

1. N. Nazar. *Gambir Budidaya, pengolahan dan prospek diversifikasinya*, Padang, Yayasan hutanku, 2000.
2. Y. Zasshi, Pharmacological action of Gambir, *The Journal of Japanese History of Pharmacy,* 40(1): 29-33, (2005).
3. T. Okuda, 26-Antioxidant in Herbs: Polyphenols, *Antioxidant Food Suplements in Human Health,* 393-410, (1999).
4. E. Yerizel, Pengaruh katekin teh hijau (Camelia sinensis) terhadap maondialdehid (MDA) darah dan MDA hepar tikus, *Jurnal Penelitian Andalas*, 14(37): (2002).
5. R. Pambayun, M. Garjito, S. Sudarmadji, K. Rahayu, Kuwanto, Kandungan fenol dan sifat antibakteri dari berbagai jenis ekstrak produk gambir (*Uncaria gambir* Roxb), *Majalah Farmasi Indonesia,* 18(3): 141-146, (2007).
6. E. Hayani, Analisis kadar katekin dari gambir dengan berbagai metode, *Buletin Teknik Pertanian,* 8(1), (2003).
7. Ali. M, *Peranan radikal bebas pada patogenesa kerusakan hepar*, Kumpulan makalah seminar dan lokakarya radikal bebas dan patogenesa penyakit, Malang, 13-15 Maret 1997.
8. R. A. Greenwald, Current approaches to the developments of oxygen radicals scavengers drug of today, 26: 299, (1990).
9. S. Syahbuddin, Peran radikal bebas dan anti oksidan pada proses penuaan dan diabetes melitus, Simposium pengaruh radikal bebas terhadap proses penuaan, Padang, 2 September 2000.
10. G. C. Cochrane, Cellular injury by oxydant, *Am.J.Med*, (1991).
11. G. Revila, Daya proteksi vitamin C terhadap radikal bebas yang ditimbulkan oleh karbontetraklorida (CCl_4) pada tikus ditinjau dari kadar malondialdehid (MDA) hepar. *Jurnal Penelitian Andalas*, 14(37): (2002).