EFEK KOMBINASI *Echinacea purpurea* dan *Andrographis paniculata* SEBAGAI HEPATOPROTEKTOR PADA TIKUS PUTIH YANG TERPAPAR STRES PANAS

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ABSTRACT

Antioxidants contain of *Andrographis paniculata* and *Echinacea purpurea* have been proven to be beneficial to health. The purpose of this study was to determine whether the combination of the two plant extracts contains capable act as hepatoprotector against on heat stressed-rat.

Thirty female rat with 2-3 month of ages used as animal model were divided into five groups; K- (negative control), P0, P1, P2, P3. They were given by a suspension containing the combination between *Andrographis paniculata* and *Echinacea purpurea* in several doses during 28 days before made to suffer from heat stress for 8 days as long as 30 minutes/day. Treatments consist of negative control which was not given by both treatments, P0 (0capsule/200gramBW/day), P1 (0,0252capsule/200gramBW/day), P2 (0,0504capsule/200gramBW/day), P3 (0,0756capsule/200gramBW/day) as long as 28 days advanced by heat stress treatment.

The results of this study indicated that the combination of *Andrographis paniculata* extract and *Echinacea purpurea* is able to function as hepatoprotector by maintaining levels of SGOT and SGPT within normal limits. The effective dose are shown in group P1 and P2, with average SGOT and SGPT levels as low as K- obtained from the treatment, with average levels of SGOT of 46,83U/l -49,83U/l and SGPT of 24,67U/l-26,17U/l.

**Keywords**: *Andrographis paniculata, Echinacea purpurea*, heat stress, SGOT, SGPT.