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Utilization of Extract Phaleria (Phaleria Macrocarpa) as a Precaution against Carbon Tetrachloride Induced Hepatotoxicity in Mice

1. Reny I'tishom --> Department of Medical Biology Faculty of Medicine, Airlangga University
2. Rochmah Kurnijasanti --> Department of Medical Biology Faculty of Medicine, Airlangga University

Abstract

The hepatoprotective activity of extract of mahkota dewa fruit’s (Phaleria macrocarpa) was investigated against Carbon Tetrachloride (CCl4) induced hepatic damage. Carbon Tetrachloride at a dose of 0.3 ml/kg body weight produced liver damage in mice as manifested by the rise in serum level of Glutamate Pyruvate Transaminase (GPT) and Glutamate Oxaloacetal Transaminase (GOT) to 31.4286 ± 2.4398 and 87.1429 ± 2.4398 respectively, compared to respective control values of 23.0000 ± 1.7889 and 39.0000 ± 3.6968. Pretreatment of mice with mahkota dewa fruit’s extract at concentration of 2.5 ; 5; 10 mg/kg body weight significantly prevent (p < 0.001) Carbon Tetrachloride induced rise in serum enzymes and the estimated values of GPT was 27.2857 ± 1.9760 ; 22.8750 ± 2.1002 and 22.1667 ± 1.3239 respectively, and GOT was 53.0000 ± 8.6410 ; 45.1429 ± 3.4365 and 40.6667 ± 7.1740 respectively. The result indicate that the mahkota dewa fruit’s (Phaleria macrocarpa) extract possesses hepatoprotective activity which probably related to its antioxidant activity.

Keyword : Phaleria, macrocarpa, hepatotoxic, ,

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