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

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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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