

Exploring Hepatoprotective Effect of an Ethanolic Extract of a Herbal Formulation in Paracetamol Induced Hepatic Injury in Swiss Albino Mice

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Abstract—Continual exposure of liver to a variety of xenobiotics, environmental pollutants, and chemotherapeutic agents, makes this vital organ susceptible to a number of pathologies that result in hepatic damage. Herbal medicines have shown a promise to cure the liver ailments without causing any side effects. The purpose of this study is to investigate the effect of an Ethanolic extract of Herbal formulation on antioxidant enzymes, lipid peroxidation and liver marker enzymes in the swiss albino mice whose liver is damaged by the administration of Paracetamol and by comparing its results with the reference drug Silymarin. The results show that the extract possesses some hepatoprotective effects as it is effective in bringing the levels of antioxidant enzymes and liver marker enzymes to normal levels.

Keywords: Hepatoprotective, Paracetamol, Silymarin

Reference

- [1] Dhanasekaran JJ, Ganapathy M, (2011). Hepatoprotective effect of Cassia auriculata L. leaf extract on carbon tetra chloride intoxicated liver damage in Wistar albino rats. *Asian J Biochem*, 6(1): 104-12.
- [2] Ganesan RK, Palpandian P, (2016). Hepatoprotective activity of Averrhoa carambola against paracetamol induced liver toxicity in mice. *International Journal of Botany Studies*, 1: 04-06.
- [3] Sharma N, Shukla S, (2011). Hepatoprotective potential of aqueous extract of Butea monosperma against CCl₄ induced damage in rats. *Exp Toxicol Pathol*, 63: 671-676.