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(57) Abstract :

The present invention relates to the ethanolic extract of Berberis vulgaris root bark and its safety evaluation through acute and sub-acute oral toxicity studies. The root bark was dried, powdered, and extracted using Soxhlet apparatus with ethyl acetate, ethanol, and water. Acute oral toxicity was assessed in Wistar rats following OECD guidelines, with doses up to 5000 mg/kg. The study monitored body weight, food and water intake, haematological, biochemical, and histopathological parameters. No significant toxicity signs, mortality, or major organ damage were observed, except for mild lymphocytic infiltration at higher doses. The results suggest that Berberis vulgaris extract is well tolerated and safe for further pharmacological applications. These findings provide scientific validation for its traditional use and potential therapeutic benefits. Further research is needed to isolate bioactive compounds and explore their pharmacological efficacy in various disease conditions.

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