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Pharmacological Evaluation of Ethanol Extracts From Alpine Calcarata Rhizome Anti Asthmatic, Antioxidant and Inflammatory Activities

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Objective & Aim: The present study aims to assess the toxicological profile and reproductive toxicity of selected herbal aphrodisiac formulations in Wistar rats by evaluating their safety, potential systemic toxicity, and effects on reproductive parameters following sub-chronic administration in both male and female rats.

Method: Adult male and female Wistar rats were randomly divided into control and treatment groups. Herbal aphrodisiac formulations were administered orally at different dose levels over a 28-day period. General toxicological assessments included monitoring of body weight, food and water intake, hematological and biochemical parameters, and histopathological examination of major organs (liver, kidney, heart, testes, ovaries, etc.). Reproductive toxicity was evaluated through analysis of sperm count, motility, morphology, estrous cycle pattern, mating behavior, and fertility indices. All data were statistically analyzed to determine significance compared to control.

Keywords: Herbal aphrodisiac, reproductive toxicity, toxicological assessment, Wistar rats, fertility, histopathology, sperm analysis, estrous cycle, phytotherapy, sub-chronic toxicity

Biography 1: Ms. Peetala Mrudhula is pursuing her M.Pharmacy in the Department of Pharmacology at *Sri Venkateswara College of Pharmacy*. Her research focuses on toxicology and reproductive pharmacology, as reflected in her study on the *Pharmacological Evaluation of Ethanol Extracts From Alpine Calcarata Rhizome Anti Asthmatic, Antioxidant and Inflammatory Activities*.

Biography 2: Ms. N. Rajeswari, M.Pharm (Pharmacology), is an Assistant Professor at Sri Venkateswara College of Pharmacy with over 6 years of academic and research experience. Her interests include experimental pharmacology, toxicology and herbal drug research, with a focus on integrating traditional medicine with modern therapeutics

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