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(54) Title of the invention : AILANTHUS EXCELS IN ANTI-ANALGESIC AND ACUTE TOXICITY STUDIES

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(57) Abstract :  
The present invention relates to a simple and reliable method for extracting bioactive compounds from Ailanthus excelsa leaves and evaluates their therapeutic potential. The extraction process involves drying, grinding, and using hydrochloric acid for extraction, followed by evaporation and drying, yielding a stable crude extract. Acute oral toxicity studies, following OECD guidelines, confirmed the extract's safety at doses up to 2000 mg/kg, with no adverse effects. Analgesic activity was assessed using the hot plate method, demonstrating significant dose-dependent efficacy at 200 mg/kg and 400 mg/kg, comparable to the standard drug Indomethacin. The invention provides a sustainable, plant-based alternative for pain management, offering effective therapeutic benefits with minimal side effects. This approach emphasizes eco-friendly extraction, stability, and reproducibility, making it a valuable contribution to natural product-based drug development

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