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(54) Title of the invention : PHARMACOLOGICAL EVALUATION OF ETHANOLIC EXTRACT OF LEUCAS CEPHALOTES FOR ANTIDIABETIC ACTIVITY

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(57) Abstract :

The present invention relates to an ethanolic extract of Leucas cephalotes, a plant native to Moradabad, Uttar Pradesh, India, with significant pharmacological potential. The extract is prepared using a maceration process in ethanol, followed by filtration, concentration, and drying. Phytochemical analysis revealed the presence of bioactive compounds such as triterpenes, flavonoids, saponins, alkaloids, and phenolics. Toxicity studies confirmed the safety of the extract, even at high doses. The antidiabetic activity of the extract was evaluated in alloxan-induced diabetic rats, showing significant reductions in blood glucose levels, particularly with repeated administration. Additionally, the extract improved biochemical parameters such as serum albumin and total protein, while reducing urea and creatinine levels.

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