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(54) Title of the invention : PHARMACOGNOSTICAL AND PHARMACOLOGICAL EVALUATION OF LEAF OF TACOMA CAPENSIS

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(57) Abstract :
 The present invention relates to the pharmacognostical and pharmacological evaluation of Tecoma capensis leaves, exploring its potential therapeutic benefits. Phytochemical screening revealed the presence of alkaloids, flavonoids, tannins, and other bioactive compounds. Quantitative microscopy provided essential data on stomatal characteristics and vein patterns. Ash and extractive values indicated the composition and yield potential of the plant material. Animal studies, using Wistar albino rats, evaluated acute toxicity and anti-diarrheal effects of ethanolic leaf extracts. Results showed significant antioxidant activity through DPPH and hydrogen peroxide scavenging assays, underscoring its potential as a natural antioxidant.

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