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(57) Abstract :

The present invention relates to a diuretic compositions derived from Thalictum javanicum Blume root extracts prepared via ethanolic Soxhlet extraction and aqueous cold maceration. The aqueous extract showed a higher yield (77.90% w/w) compared to the ethanolic extract (23.46% w/w). Both extracts were evaluated for diuretic activity in albino rats by measuring urine volume and electrolyte excretion over 5 hours. Results demonstrated significant diuretic effects, with the aqueous extract at 600 mg/kg exhibiting superior activity comparable to the standard drug frusemide. The invention offers a natural, effective, and safer alternative to synthetic diuretics, supporting traditional medicinal uses of T. javanicum. This provides a basis for developing plant-based diuretic formulations for managing fluid retention and related disorders.

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