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Formulation and Evaluation of Antiurolithic Tablets by Using *Macrotyloma uniflorum* Seeds

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Abstract

Urolithiasis, the formation of urinary stones or kidney stone, is a common and recurrent disorder affecting millions worldwide. Current treatment methods include surgical removal and chemical dissolution, which are often expensive and come with side effects. This study aims to formulate and evaluate an antiurolithiatic herbal tablet using *Macrotyloma uniflorum* (Horse gram) seed powder and *Asparagus racemosus* (Satavari) root extract. Both ingredients have been traditionally used in Ayurvedic medicine for kidney health. The tablet was prepared using the wet granulation method and evaluated for physicochemical parameters including hardness, friability, disintegration time, and in vitro dissolution. The antiurolithiatic activity was evaluated using an in vitro crystallization inhibition model.

Results demonstrated good tablet properties, pharmacologically active and significant inhibition of calcium oxalate crystal formation, indicating the potential of this formulation as a safe and effective antiurolithiatic agent.

Keywords:

Urolithiasis, *Macrotyloma uniflorum*, *asparagus racemosus*, Antiurolithiatic activity, Crystallization inhibition

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