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(57) Abstract :
A composition for managing urolithiasis includes a standardized orange peel extract (OPE) formulated as a solid tablet. The OPE is prepared, phytochemically analyzed, and standardized based on total phenol content (TPC) and total flavonoid content (TFC) to ensure consistent bioactive composition. The efficacy of the standardized OPE against calcium oxalate (CaOx) crystal formation is evaluated using a series of in vitro assays, demonstrating superior inhibition at specific concentrations compared to standard treatments. The solid tablet comprises specific amounts of standardized OPE, microcrystalline cellulose, lactose monohydrate, pregelatinized starch, crospovidone, magnesium stearate, and colloidal silicon dioxide.

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