

**Medical, Health & Pharmaceutical Sciences:**  
**Evaluation of in-vitro anti-urolithiatic activity of methanolic extract**  
**of *Tamilnadia uliginosa* fruit**

K Sai santhoshi<sup>#</sup>, K Sudhakar<sup>\*</sup>

<sup>#</sup>*Medicinal Chemistry Research Division, Department of Pharmaceutical Chemistry, Vaagdevi College of Pharmacy, Warangal-506001, Telangana.*

*e-mail: [kondapalli.s.santhoshi@gmail.com](mailto:kondapalli.s.santhoshi@gmail.com)*

<sup>\*</sup>*Department of Pharmacognosy, Anurag Pharmacy College, Kodad, Suryapet-508206, Telangana*

*e-mail: [sudhakarpharma001@gmail.com](mailto:sudhakarpharma001@gmail.com)*

**Abstract:** India has a great diversity of medicinal plants. There are thousands of plants which are used in traditional medicinal system to cure many diseases since thousands of years. Approximately 80% of the world population depends exclusively on plants for their health and healing. Stone formation in the kidney is one of the oldest and most spread diseases known to man. In India people living in different states utilize different parts of plants for curing urolithiasis. Natural products are more useful for body because they promote the repair mechanism in natural way. Phytochemicals are responsible for medicinal activity of plant species. Natural products from medicinal plants, either as pure compounds or as standardized extracts, provide unlimited opportunities for new drug leads because of the unmatched availability of chemical diversity. *Tamilnadia uliginosa* is a member of *Rubiaceae* family. The different parts of the plant are used for various ailments like cholera, diarrhea, dysentery, diuretic, tonic properties etc. the present study aims to studying the Anti urolithiatic activity of methanolic extract of the *Tamilnadia uliginosa* fruits. In this experiment methanolic extract of *Tamilnadia uliginosa* used for inhibition of formation of kidney stones of calcium oxalate by an in-vitro model. To check their potential to inhibit the kidney stones- calcium oxalate by an in-vitro model for *Tamilnadia uliginosa* fruits and cystone used as a standard compound collected from market. The results of the present study showed that the methanolic extract of *Tamilnadia uliginosa* fruits exhibit the significant anti urolithiatic activity when compared to cystone.

**Key words:** *Tamilnadia uliginosa*, Anti-urolithiatic, Calcium oxalate and Cystone.

**References:**

1. Jalpa Ram, Pooja Moteriya *et al.*, An overview of some promising medicinal plants with in vitro anti-urolithiatic activity, IOSR Journal of Pharmacy, 2015: 5 (5) 23-28.
2. Menon M, Parulkar BC *et al.*; Urinary lithiasis: etiology, diagnosis and medical management. In: Walsh PC, et al., eds. Campbell's Urology. 7th ed. Philadelphia: Saunders, 1998: 2661-733.
3. K. Sudhakar, M. Chinna Eswaraiah *et al.*, An updated review on *Tamilnadia uliginosa*, Int. Res J Pharm. App Sci., 2012; 2(5): 185-189.

**Paper ID** (To be added by Programme Committee)