

International Journal of Advanced Research

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REVIEWER'S REPORT

Manuscript No.: IJAR-53139

Date: 04.08.25

Title: Novel In Vitro Approaches for Screening and Identification of Anti- Urolithiatic Activity: A Comprehensive Review

Recommendation:

Accept as it is

Accept after minor revision... TITLE OF THIS ARTICLE MAY BE REVISED AND CLARIFY AND VERIFY THE RECOMMENDATION POINTS

Do not accept (*Reasons below*)

Rating	Excel.	Good	Fair	Poor
Originality				√
Techn. Quality			√	
Clarity		√		
Significance		√		

Reviewer Name: PROF DR DILLIP KUMAR MOHAPATRA

Date: 04.08.25

Reviewer's Comment for Publication.

(To be published with the manuscript in the journal)

The reviewer is requested to provide a brief comment (3-4 lines) highlighting the significance, strengths, or key insights of the manuscript. This comment will be Displayed in the journal publication alongside with the reviewers name.

Detailed Reviewer's Report

Based on the content and structure, this article appears to be an original research article rather than a review article. Here's why:

- Specific research question:** The article investigates the anti-urolithiatic activity of *Aerva lanata* and *Bryophyllum pinnatum* extracts.
- Methodology:** The article describes a specific experimental design, including the preparation of plant extracts, phytochemical analysis, and evaluation of anti-urolithiatic activity.
- Results:** The article presents specific results from the experiments, including the dissolution of calcium oxalate crystals.
- Conclusion:** The article draws conclusions based on the specific findings.

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While the article does provide a comprehensive background on urolithiasis and the potential of medicinal plants, its primary focus is on presenting original research findings rather than reviewing existing literature.

Review article characteristics:

A review article typically:

1. Provides a comprehensive overview of a topic.
2. Synthesizes existing literature.
3. Identifies gaps in current knowledge.
4. May not present original research.

This article does not fit perfectly into the review article category due to its focus on original research and specific experimental findings.

The study highlights the limitations of current treatment options for urolithiasis and the need for alternative therapies.

Strengths:

- The review provides a thorough overview of the pathophysiology of kidney stone formation and the potential of medicinal plants in preventing and managing urolithiasis.
- The study highlights the importance of phytoconstituents, such as flavonoids, saponins, and tannins, in exhibiting anti-urolithiatic activity.
- The review discusses various in vitro methods for evaluating anti-urolithiatic activity, including the egg membrane assay.

Weaknesses:

- The review could benefit from a more detailed discussion on the specific mechanisms of action of the phytoconstituents and their potential interactions.
- Some sections of the manuscript could be reorganized for better clarity and flow.
- More emphasis could be placed on the potential clinical applications and future directions for research in this area.

REVIEWER'S REPORT

Recommendations:

- Consider adding more tables or figures to summarize the key findings and mechanisms of action of the phytoconstituents.
 - Provide more details on the potential toxicity and safety profiles of the medicinal plants and their extracts.
 - Discuss the potential for standardization and quality control of herbal remedies for urolithiasis treatment.
1. Cite the original publication: If the current article is an extension or modification of the previous study, it's essential to cite the original publication and clearly indicate the differences and advancements.
 2. Verify originality: The author should verify the originality of the current article and ensure that it meets the journal's requirements for novelty and contribution to the field.
 3. Clarify the relationship: If the current article is part of a larger study or a series of publications, it's crucial to clarify the relationship between the articles and provide context for the reader.

Potential Impact:

- The study's findings have significant implications for the development of novel, cost-effective, and eco-friendly therapies for urolithiasis.
- The review highlights the potential of medicinal plants and their phytoconstituents in preventing and managing kidney stone disease, which could lead to new avenues for research and treatment.

Revisions:

To enhance the article's suitability for publication, consider:

- Adding more critical analysis and discussion of the limitations of existing research.
- Highlighting the potential clinical applications and future directions for research in this area.
- Ensuring the article's structure and formatting meet the journal's guidelines.

Overall, this article presents valuable research on the anti-urolithiatic activity of *Aerva lanata* and *Bryophyllum pinnatum* extracts, and with some revisions, it could be a strong candidate for publication.

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Prior Publication:

The article appears to be similar to a previously published study:

- "In-vitro investigation on antiurolithiatic activity and phytochemical examination of Aerva lanata and Bryophyllum pinnatum: A comparative study" (Journal of Indian Chemical Society, 2022)

The similarity in title, content, and references suggests that the current article may be a duplicate or a modified version of the previously published study.