

REVIEWER'S REPORT

Manuscript No.: IJAR-58690

Title: Assessment of Phytochemical Composition and Effects of Aqueous Extract of Piper umbellatum Leaves on Blood Biomarkers and Liver and Kidney Histology in Wistar Rats.

Recommendation:

Accept as it is ☐☐☐☐..

Accept after minor revision ☐☐☒☐

Accept after major revision ☐☐☐☐☐

Do not accept (*Reasons below*) ☐☐☐

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

Reviewer ID: JP085

Reviewer's Comment for Publication.

The study evaluates the phytochemical composition and safety effects of an aqueous extract of Piper umbellatum leaves in Wistar rats. Different doses were administered for 14 days, and biochemical, hematological, electrolyte, and histological parameters were assessed. The extract showed several phytochemicals and did not produce significant liver or kidney damage.

Strength:

1. Relevant study on a medicinal plant.
2. Includes biochemical, hematological, and histological evaluations.
3. Different extract doses were tested.
4. Results are supported by tables and histological observations.
5. The study has potential value for evaluating the safety of Piper umbellatum.

Weakness:

1. Sample size is small.
2. There are inconsistencies in the number of animals/groups described.
3. Some methodological details need clarification.
4. Language and grammatical errors are present.
5. Phytochemical analysis is only qualitative.
6. The study duration is short for assessing long-term safety.

Overall assessment:

The article presents useful experimental findings on the safety and phytochemical profile of Piper umbellatum. However, some methodological details, animal numbers, statistical presentation, and language need improvement before publication.

Recommendation: Manuscript accepted for publication after minor revision.