

REVIEWER'S REPORT

Manuscript No.: IJAR-59273

Title: In vivo Evaluation of the Antidiabetic Potential of Piper chaba Extract in Alloxan-Induced Diabetic Swiss Albino Mice.

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.

This study evaluated the antidiabetic activity of methanolic extract of Piper chaba stem in alloxan-induced diabetic mice. The extract at 200 and 400 mg/kg reduced fasting blood glucose over 21 days, with the higher dose showing greater reduction.

Strength:

1. Relevant topic with potential antidiabetic importance.
2. Clear experimental groups and treatment doses.
3. Standard drug (metformin) was included for comparison.
4. Acute toxicity testing was reported.
5. Animal ethics approval was mentioned.
6. Blood glucose was measured at multiple time points.
7. Dose-dependent reduction in glucose was observed.

Weakness:

1. Only fasting blood glucose was measured; other biochemical parameters were not evaluated.
2. The diabetic threshold is mentioned as "FBG value" but the exact predefined value should be clearly stated.
3. Statistical analysis does not clearly explain how repeated measurements over 21 days were handled.
4. Exact p-values and comparisons between all groups should be provided.
5. Phytochemical analysis of the extract is not presented.
6. There are several grammatical, spacing, and formatting errors.

Overall assessment:

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The study is relevant and shows promising antidiabetic activity of Piper chaba extract. However, sample-size inconsistency, limited biochemical evaluation, statistical clarification, and overinterpretation of mechanisms should be addressed before publication. Minor revision is recommended before publication.

Recommendation: Manuscript accepted for publication after minor revision.