ISSN(O): 2320-5407 | ISSN(P): 3107-4928

# International Journal of Advanced Research

**Publisher's Name: Jana Publication and Research LLP**

*www.journalijar.com*

## REVIEWER'S REPORT

Manuscript No.: IJAR-59542

**Title: IN VITRO A-GLUCOSIDASE INHIBITORY ACTIVITY OF FOUR MEDICINAL PLANTS FROM 3 BOUAFLÉ, CÔTE D'IVOIRE: INFLUENCE OF PLANT SPECIES AND EXTRACTION PROCEDURE.**

**Recommendation:**

Accept as it is .....

Accept after minor revision...**Yes**.....

Accept after major revision .....

Do not accept (*Reasons below*) .....

| Rating | Excel. | Good | Fair | Poor |
|---|---|---|---|---|
| Originality | | Good | | |
| Techn. Quality | | Good | | |
| Clarity | | | Fair | |
| Significance | | | Fair | |

Reviewer's ID: JPR- 208

## *Detailed Reviewer's Report*

The manuscript would benefit from the following limited revisions:

1. Clarify the number of experimental replicates and provide sufficient information about variability and statistical comparisons.
2. Briefly explain the rationale for using digestive juice from Archachatina ventricosa as the enzyme source and acknowledge the implications for extrapolation to mammalian enzymes.
3. Check the consistency of botanical names, scientific italics, abbreviations, and units throughout the manuscript.
4. Review the tables and figures for uniform formatting, legibility, and consistency between captions and the main text.
5. Standardize the reference formatting and verify the completeness of bibliographic details.
6. Retain the cautious interpretation of the findings and emphasize the need for further mechanistic, phytochemical, and toxicity studies.

**Confidential Comments to the Editor**

The manuscript addresses a relevant research question and presents comparative experimental findings supported by concentration-dependent measurements and statistical analysis. Its principal strength lies in the systematic evaluation of four medicinal plants using three extraction procedures under a common assay framework. The findings are of potential interest to the natural products research community, particularly the results obtained for Flacourtia flavescens. The authors also acknowledge important methodological limitations and appropriately avoid claiming proven therapeutic efficacy.

This manuscript contributes to the comparative evaluation of medicinal plants as potential sources of α-glucosidase inhibitors. Its findings provide a useful starting point for identifying promising plant extracts and selecting appropriate extraction procedures for subsequent investigation. The observed activity of F. flavescens is particularly noteworthy and may guide future studies aimed at identifying active

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constituents and clarifying their mechanisms of action. The study is relevant to researchers working in phytochemistry, natural products, medicinal plant biology, and enzyme inhibition.

I recommend acceptance after minor revisions, subject to editorial verification of methodological details, statistical reporting, and reference consistency.