

Review Form 3

Journal Name:	International Journal of Biochemistry Research & Review
Manuscript Number:	Ms_IJBCRR_129086
Title of the Manuscript:	Spectrophotometric detection of beta-lactamase inhibition by plant extracts
Type of the Article	Original Research Article

General guidelines for the Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guidelines for the Peer Review process, reviewers are requested to visit this link:

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PART 1: Comments

	Reviewer's comment	Author's Feedback (Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.	This is a very good research as there is now the prevalence of antibiotic/antimicrobial resistance. Research such as this can present opportunities for alternatives to currently known antibiotics. Or, findings from this research can serve as basis for the isolation of the compounds responsible for synergistic effects, which can later on be developed into alternative products.	
Is the title of the article suitable? (If not please suggest an alternative title)	It is too broad. Perhaps an alternative title could be: Beta-lactamase inhibitory potential of ethanolic extracts of select plant extracts	
Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.	Perhaps a grammar check on the typographical errors of scientific names. Please see those highlighted in yellow. Results: Among the tested extracts, Ipomoea batatas showed no effect on the beta-lactamases, whereas Terminalia superba and Annona senegalensis exhibited inhibitory activity against all the beta-lactamases. Psidium guajava inhibited two of the five tested enzymes. The highest percentage of inhibition was observed with Terminalia superba on the beta-lactamase of Bacillus cereus, reaching 75.73%. Regarding the combination of beta-lactam antibiotics with plant extracts, the combination of Terminalia superba and ceftriaxone showed the highest inhibition, with a percentage of 64.90%. The combination of Annona senegalensis and ceftazidime was the least effective, with an inhibition rate of only 12.95%.	
Is the manuscript scientifically, correct? Please write here.	Yes, though there are some typographical errors that need to be checked for consistency, especially the scientific names. And, the meanings of the acronyms, especially when they are first mentioned in the text. Further, please check too for the correctness and completeness of the formulas used in the percentage inhibition. OD and DO are mentioned in these formulas. Please be consistent with the use of OD to mean optical density. Further, please add x 100% as the value derived and reported is in %.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	Yes, however, please check for correctness of citation and listing of references. Example: Hadi T, Ali E. Extraction and Purification of Intracellular Beta-Lactamase from Proteus mirabilis. Journal of Pharmaceutical Negative Results. 2022;13(04) :1288-1294. This reference is cited with an et al. However, there are only 2 authors listed.	
Is the language/English quality of the article suitable for scholarly communications?	Yes, it is comprehensible.	
Optional/General comments	This research is very good because of its importance with the current global problem of antibiotic or antimicrobial resistance. However, a thorough check of the scientific names, terminologies used and their consistencies, and references citation is recommended.	

PART 2:

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Are there ethical issues in this manuscript?	(If yes, Kindly please write down the ethical issues here in details)	

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