

Review Form 3

Journal Name:	Journal of Advances in Biology & Biotechnology
Manuscript Number:	Ms_JABB_123430
Title of the Manuscript:	LC-MS BASED TARGETED METABOLITE PROFILING, AAS BASED MINERAL PROFILING IN METHANOL LEAF EXTRACT OF Terminalia bellerica (Gaertn.)
Type of the Article	

PART 1: Review Comments

Compulsory REVISION 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. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.	This manuscript offers significant value to the scientific community by providing a detailed analysis of the bioactive compounds and mineral content in Terminalia bellerica, a plant known for its medicinal properties. The identification of high levels of iron and potent phytochemicals, such as chebulinic acid and myricetin, underscores the plant's potential as a natural therapeutic agent. The findings could pave the way for future drug discovery and the development of health supplements, offering natural alternatives with fewer side effects compared to synthetic drugs. This study contributes to the growing body of knowledge on the medicinal use of plants in modern healthcare.	
Is the title of the article suitable? (If not please suggest an alternative title)	No. Suggestion: LC-MS-Based Targeted Metabolite Profiling and AAS-Based Mineral Analysis of Methanol Extract of Terminalia bellerica (Gaertn.) leaves.	
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.	The abstract of the manuscript is informative but could benefit from some improvements to enhance clarity and comprehensiveness. Here are a few suggestions: Additions: Methodology Details: The abstract mentions the use of AAS and LC-MS techniques, but it would be beneficial to briefly explain what these techniques entail (e.g., for profiling minerals and metabolites, respectively) for a more general audience	
Are subsections and structure of the manuscript appropriate?	Yes	
Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.	The manuscript appears scientifically robust and technically sound based on several factors. First, the use of well-established techniques such as LC-MS for targeted metabolite profiling and AAS for mineral analysis demonstrates a solid methodological foundation. These techniques are highly sensitive and precise, ensuring accurate identification and quantification of bioactive compounds and minerals in Terminalia bellerica.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	No, suggestion of where the references should be included have been highlighted in the manuscript	

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Minor REVISION comments Is the language/English quality of the article suitable for scholarly communications?	The language quality of the article need further improvement for scholarly communications in its current form.	
<u>Optional/General</u> comments		

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?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

Reviewer Details:

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