

### Review Form 3

Journal Name:	<a href="#">International Journal of Biochemistry Research &amp; Review</a>
Manuscript Number:	Ms_IJBCRR_122554
Title of the Manuscript:	<b>Comparative studies of some Biochemical, Proximate Analysis, Mineral Composition and Acute Toxicity Study of two Medicinal Plants from Lagos suburb in Nigeria</b>
Type of the 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:

<https://r1.reviewerhub.org/general-editorial-policy/>

#### **Important Policies Regarding Peer Review**

Peer review Comments Approval Policy: <https://r1.reviewerhub.org/peer-review-comments-approval-policy/>

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#### 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)
<p><b>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.</b></p>	<p>The scientific community will find great value in this work, especially in the area of medicinal plant research. It offers thorough information on the biochemistry, proximate, mineral, and acute toxicity of two plants that are highly relevant to ethnobotany: <i>Chromolaena odorata</i> and <i>Ipomoea involucrata</i>. The study provides strong evidence of the phytochemical profiles, nutritional qualities, and safety margins of these plants, which advances our understanding of their potential medical uses. To validate traditional applications and investigate these plants as potential therapeutic candidates, a thorough investigation is necessary. Additionally, the publication advances the larger field of natural product research, which is seeing an increase in demand for safer medicinal compounds derived from plants.</p>	
<p><b>Is the title of the article suitable? (If not please suggest an alternative title)</b></p>	<p>The title is informative but could be more concise and focused. The current title attempts to cover too many aspects, which may overwhelm the reader. I suggest changing the title to: "Comparative Biochemical and Toxicological Profiling of <i>Chromolaena odorata</i> and <i>Ipomoea involucrata</i> from Lagos, Nigeria."</p>	
<p><b>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.</b></p>	<p>The study's main conclusions are highlighted in the abstract, which is generally thorough. A more organized presentation with distinct sections for the background, research design, methods, findings, and conclusion would be beneficial, though. In order to give context, I propose adding a brief summary of the methodologies employed for each investigation and the research design used. Additionally, I think it would be wise to eliminate some of the previously extensively documented repeated claims of the plants' possible medical advantages.</p>	
<p><b>Are subsections and structure of the manuscript appropriate?</b></p>	<p>The manuscript's subsections and overall organization are suitable, yet some sections—like the Methods—could use a more sensible arrangement. To improve readability, for example, similar assays could be grouped together under pertinent subheadings. Rearranging the Methods section to put related analysis types (e.g., mineral content, proximate composition, phytochemical analysis) under different subheadings is what I would want to propose.</p>	
<p><b>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.</b></p>	<p>The manuscript is technically sound and has strong scientific support. The techniques used for mineral analysis, proximate analysis, and phytochemical screening are accepted and extensively recorded in the literature. The acute toxicity study provides important information confirming these plants' safety for medical usage. The study's scientific foundation is strong because it makes use of proven and dependable analytical techniques. The study's conclusions about the nutritional and phytochemical profiles of these plants are in line with previous research, which lends the work more legitimacy. The acute toxicity investigation illustrates these plants' safety margin, which supports the paper even more.</p>	
<p><b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b></p> <p>=</p>	<p>The references are generally sufficient, but some are outdated. For instance, recent studies (within the last 5 years) on phytochemical analysis and medicinal plant toxicity should be included to ensure the manuscript is up-to-date. Consider adding the following recent references to bolster the literature review:</p> <p>Bansal, A., &amp; Priyadarsini, C. (2022). Medicinal Properties of Phytochemicals and Their Production. <i>IntechOpen</i>. DOI: 10.5772/intechopen.98888</p> <p>Odebunmi, C. A., Adetunji, T. L., Adetunji, A. E., Olatunde, A., Oluwole, O. E., Adewale, I. A., &amp; Aremu, T. O. (2022). Ethnobotanical survey of medicinal plants used in the treatment of COVID-19 and related respiratory infections in Ogbomosho South and North Local Government areas, Oyo State, Nigeria. <i>Plants</i>, 11(19), 2667.</p> <p>Pereda-Miranda, R., &amp; de Moraes Santos, C. A. (2021). Trends in pharmacognosy: 35 years of research on therapeutical natural resources. <i>Revista Brasileira de Farmacognosia</i>, 31(5), 503-504.</p> <p>Gesto-Borroto, R., Medina-Jiménez, K., Lorence, A., &amp; Villarreal, M.L. (2021) Application of DNA barcoding for quality control of herbal drugs and their phytopharmaceuticals. <i>Rev Bras Farmacogn</i> 31:127–141. <a href="https://doi.org/10.1007/s43450-021-00128-7">https://doi.org/10.1007/s43450-021-00128-7</a></p> <p>Hardy K (2021) Paleomedicine and the evolutionary context of medicinal plant use. <i>Rev Bras</i></p>	

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	<p><i>Farmacogn</i> 31:1–15. <a href="https://doi.org/10.1007/s43450-020-00107-4">https://doi.org/10.1007/s43450-020-00107-4</a></p> <p>Yang, J., Jia, M., &amp; Guo, J. (2019) Functional genome of medicinal plants. In: Huang L-Q (ed) <i>Molecular pharmacognosy</i>. Springer, Singapore, pp 191–234. <a href="https://doi.org/10.1007/978-981-32-9034-1_7">https://doi.org/10.1007/978-981-32-9034-1_7</a></p>	
<p><u>Minor REVISION</u> comments</p> <p><b>Is the language/English quality of the article suitable for scholarly communications?</b></p>	<p>Although the majority of the manuscript's language is appropriate for academic discourse, a few grammar mistakes and confusing phrasings need to be fixed. Sentence structure and the description of the results' clarity are two specific areas that might use improvement. To polish the manuscript's language and increase readability, a thorough proofread by a native English speaker or professional editor is advised.</p>	
<p><u>Optional/General</u> comments</p>	<p>Please make sure that the scientific names are italicized and that the references are properly according to journal style.</p>	

**PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> (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)
<p><b>Are there ethical issues in this manuscript?</b></p>	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p>	

**Reviewer Details:**

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