

**Review Form 3**

Journal Name:	<a href="#">Journal of Advances in Biology &amp; Biotechnology</a>
Manuscript Number:	Ms_JABB_125940
Title of the Manuscript:	<b>Standardization and Characterization of Panchagavya: Enhancing Nutrient Content and Seed Germination in Organic Farming</b>
Type of the Article	<b>Research Article</b>

## Review Form 3

### 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>This manuscript is of significant importance to the scientific community as it addresses the urgent need for sustainable agricultural practices amidst rising concerns over the environmental and health impacts of chemical-intensive farming. By focusing on the standardization and characterization of Panchagavya, a traditional liquid organic fertilizer, it contributes to the growing body of knowledge aimed at improving soil health and crop productivity in eco-friendly ways. I appreciate how the study incorporates rigorous experimental methods, including nutrient analysis and germination studies, to validate the effectiveness of Panchagavya.</p>	
<p><b>Is the title of the article suitable? (If not please suggest an alternative title)</b></p>	<p>The current title, "Standardization and Characterization of Panchagavya: Enhancing Nutrient Content and Seed Germination in Organic Farming," is suitable but could be made more precise and engaging. It clearly conveys the key aspects of the research, such as standardization, characterization, and the role of Panchagavya in organic farming. However, an alternative title could be more concise while maintaining its scientific focus:  <b>Suggested Title: "Standardization of Panchagavya Formulations for Enhanced Nutrient Content and Seed Germination in Sustainable Organic Farming"</b></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 abstract of the article is quite comprehensive, covering the essential aspects such as the background, objectives, methodology, results, and conclusions.</p>	
<p><b>Are subsections and structure of the manuscript appropriate?</b></p>	<p>The manuscript appears to be well-structured and organized, but some improvements in subsections and overall structure could enhance its clarity and readability.</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>This manuscript appears to be scientifically robust and technically sound due to its comprehensive approach to standardizing and characterizing Panchagavya, a traditional organic input. The study uses well-established methods, such as nutrient and microbial analysis, to validate the properties of Panchagavya, ensuring that the data is reliable and relevant for organic farming applications. The experimental design, with 81 treatments and replications, demonstrates a rigorous approach to determining optimal formulations. Furthermore, the use of biological assays, such as germination studies and hormone content analysis, adds depth to the research, making the findings applicable to practical agricultural practices.</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>The manuscript provides a substantial and up-to-date set of references, many of which are recent and pertinent to the study of Panchagavya in organic farming systems. For instance, it cites works like the "Microbiological analysis of Panchagavya, vermicompost, and FYM" published in 2013, which offers valuable insights into the microbiological quality of organic amendments.</p> <p>To further strengthen the manuscript, consider incorporating the following recent studies:</p> <ul style="list-style-type: none"> <li>• <b>"Importance of soil microbes on Panchagavya based organic farming" (2020):</b> This study delves into the microbial composition of Panchagavya and its influence on soil health, highlighting its significance in sustainable agriculture.</li> <li>• <b>"Panchagavya: A Liquid Fertilizer for Organic Farming" (2022):</b> This article discusses the preparation, application, and benefits of Panchagavya as a liquid fertilizer, providing practical insights for organic farming practices.</li> </ul>	

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<p>Minor REVISION comments</p> <p><b>Is the language/English quality of the article suitable for scholarly communications?</b></p>	<p>The language and English quality of the manuscript are generally suitable for scholarly communication, but there are areas where improvements can be made to enhance clarity and precision. The manuscript uses appropriate technical terms and provides a clear presentation of the research objectives and findings. However, a few sentences could be restructured to improve readability and flow.</p> <p>Suggestions for Improvement:</p> <p><b>Sentence Structure:</b></p> <ul style="list-style-type: none"><li>• Some sentences are long and complex, which might make it harder for readers to follow. Breaking them into shorter, more concise sentences would improve clarity.</li><li>• Example: The sentence "The crops receive soluble and readily accessible nutrients from liquid organic fertilizers..." could be simplified for better readability.</li></ul>	
<p><u>Optional/General</u> comments</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)
<b>Are there ethical issues in this manuscript?</b>	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

### **Reviewer Details:**

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