

### Review Form 3

Journal Name:	<a href="#">Journal of Advances in Biology &amp; Biotechnology</a>
Manuscript Number:	Ms_JABB_129675
Title of the Manuscript:	Edible coating with plant extracts and essential oils loaded nanoparticles: Sustaining postharvest quality of fruits and vegetables
Type of the Article	Review 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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#### **Important Policies Regarding Peer Review**

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### Review Form 3

#### PART 1: Comments

	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
<b>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.</b>	This manuscript addresses a critical issue in the postharvest management of fruits and vegetables, focusing on eco-friendly and innovative approaches to preserving quality and extending shelf life. The integration of nanoparticles with plant extracts and essential oils in edible coatings is highly relevant, considering the growing demand for sustainable and health-conscious food preservation methods. By combining recent technological advances in nanotechnology and natural bioactive compounds, the study contributes valuable insights for reducing postharvest losses, enhancing food safety, and promoting sustainable agricultural practices. The findings have the potential to benefit researchers, policymakers, and industry practitioners aiming to improve food security and sustainability.	
<b>Is the title of the article suitable? (If not please suggest an alternative title)</b>	The title, "Edible coating with plant extracts and essential oils loaded nanoparticles: Sustaining postharvest quality of fruits and vegetables," is informative and reflects the content well. However, a more concise and engaging title might be:  <b>"Nanoparticle-Enriched Edible Coatings: Extending Postharvest Quality of Fruits and Vegetables."</b>	
<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>	The abstract is comprehensive, summarizing the study's focus, methods, and implications effectively. However, it can benefit from the following refinements:  <ol style="list-style-type: none"> <li>1. Clarify how the inclusion of nanoparticles specifically enhances the performance of edible coatings.</li> <li>2. Reduce redundancy in describing the benefits of edible coatings and focus on the novel aspects, like synergistic effects and nano-reinforced matrices.</li> <li>3. Conclude with a stronger statement on the practical implications or future directions for research.</li> </ol>	
<b>Is the manuscript scientifically, correct? Please write here.</b>	The manuscript is scientifically sound, presenting a well-structured synthesis of existing research on edible coatings and their enhancement with nanoparticles. The references to recent studies and detailed discussions on various bioactive compounds provide a robust foundation. However, the following points should be considered: <ol style="list-style-type: none"> <li>1. Ensure that all claims are adequately supported by citations.</li> <li>2. Where applicable, provide quantitative data to strengthen the discussion (e.g., percentages of postharvest loss reduction).</li> </ol>	
<b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b>	The references are sufficient and recent, covering a wide range of studies relevant to edible coatings, nanoparticles, and plant extracts. However, you might consider adding: <ol style="list-style-type: none"> <li>1. Studies focusing on the economic feasibility or cost-benefit analysis of implementing these coatings at a commercial scale.</li> <li>2. Recent advances in nanotechnology applications in food science published in the last 2-3 years.</li> </ol>	
<b>Is the language/English quality of the article suitable for scholarly communications?</b>	The language is clear and suitable for scholarly communication. Minor grammatical improvements and enhancements in sentence structure would improve readability and impact.	
<b>Optional/General</b> comments	-	

#### PART 2:

	Reviewer's comment	Author's comment <i>(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)</i>
<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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