

Review Form 3

Journal Name:	Biotechnology Journal International
Manuscript Number:	Ms_BJI_124757
Title of the Manuscript:	Augmented hybrid sunscreen for Albinistic skin types from Terminalia sericea biosynthesised Silver doped ZnO NPs, efficacy and safety investigation
Type of the Article	Original Research Article

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PART 1: Review Comments

Compulsory REVISION 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>
<p>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.</p>	<p>This manuscript holds significant importance for the scientific community as it presents a novel approach to addressing the urgent need for effective sunscreens for people living with albinism, particularly in regions with high UV exposure. By leveraging Terminalia sericea-mediated biosynthesis of silver-doped ZnO nanoparticles, the study not only offers a potential solution for photoprotection but also explores antibacterial and anti-inflammatory benefits, which are crucial for genetically compromised skin. The research contributes to the ongoing search for safer, multifunctional sunscreens with fewer side effects than conventional chemical products. I appreciate the innovative combination of plant-based polyphenols and nanotechnology, though the manuscript could benefit from more streamlined presentation and clearer data interpretation.</p>	
<p>Is the title of the article suitable? (If not please suggest an alternative title)</p>	<p style="text-align: center;">Yes</p>	
<p>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.</p>	<p>1. Clarify the Objective:</p> <p>The current objective statement is quite long and complex. Simplifying it will make it easier for readers to grasp the main goal of the study quickly.</p> <p>Original: "Our objectives were to develop and evaluate the effectivity and safety of a pioneering albinistic skin biased sunscreen-based on T Sericea mediated biosynthesised Ag doped ZnONPs..."</p> <p>Suggested: "This study aimed to develop and evaluate the efficacy and safety of a novel sunscreen for albinistic skin, utilizing Terminalia sericea-mediated silver-doped ZnO nanoparticles."</p> <p>2. Focus on Key Findings:</p> <p>The abstract touches on several points but could be more focused on the most significant findings. Highlighting the sunscreen's high SPF, its photoprotective qualities, and the negligible sensitization results would be more impactful.</p> <p>Suggested Addition: "The sunscreen achieved a high SPF of 30, showed significant photoprotective properties, and demonstrated negligible skin sensitization in safety tests following OECD guidelines."</p>	
<p>Are subsections and structure of the manuscript appropriate?</p>	<p style="text-align: center;">Yes</p>	
<p>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.</p>	<p>This manuscript appears to be scientifically robust and technically sound due to its thorough experimental approach and the use of well-established methods in both nanomaterial synthesis and sunscreen formulation. The authors rigorously tested the efficacy and safety of the developed sunscreen using standardized protocols such as OECD guidelines for skin sensitization and in-vitro SPF testing, which ensures scientific accuracy and reliability. Furthermore, the incorporation of Terminalia sericea for biosynthesis, coupled with the use of advanced nanoparticle characterization techniques (UV-Vis, TEM), strengthens the technical credibility of the study. The combination of traditional medicinal plant compounds with modern nanotechnology also shows innovative and interdisciplinary research, enhancing its scientific validity.</p>	
<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</p>		

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Minor REVISION comments		
Is the language/English quality of the article suitable for scholarly communications?		
Optional/General 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>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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