

**Review Form 3**

Journal Name:	<a href="#">Journal of Advances in Biology &amp; Biotechnology</a>
Manuscript Number:	Ms_JABB_126333
Title of the Manuscript:	<b>Emerging Applications of Nanotechnology in Phytonutraceuticals: A Review of Characterization and Product Development</b>
Type of the Article	<b>Review Article</b>

## Review Form 3

### PART 1: Review Comments

<b>Compulsory</b> REVISION comments	<b>Reviewer's comment</b>	<b>Author's Feedback</b> (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.	Health & wellbeing is top global priority in an aging world. Bio-actives or phyto-pharmaceuticals, super-molecules are this emerging important concepts to follow. The article is quality broad in scope & holistic. So its fine.	
Is the title of the article suitable? (If not please suggest an alternative title)	Article title is OK but "products development" may be replaced with "scope" as production mechanism is not much discussed..	
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 article is comprehensive.	
Are subsections and structure of the manuscript appropriate?	The product structure & subsections are Ok except the last 1 that ends abruptly at "Other products are ...." in the sub-section "Allicin nanocapsules" & section "4) Product development: Phytotraceuticals". It needs to completed properly.	
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.	<ol style="list-style-type: none"> <li>1. The article is scientifically correct.</li> <li>2. It discusses <b>bio</b>-absorption and bioavailability and techniques like liposomes for "bioactives".</li> <li>3. Some other techniques not referred may be added or mentioned in the passing such as "hydrogel".</li> <li>4. Besides curcumin &amp; allicin few other "bioactives" may be mentioned, e.g. "Piperine" even if passing such as cited in Ghate &amp; Kulkarni, 2023 a- <a href="https://ejst-journal.com/index.php/ejst/article/view/231">https://ejst-journal.com/index.php/ejst/article/view/231</a></li> <li>5. Ageing has been mentioned but the growing elderly population globally &amp; higher importance of "phytopharmaceuticals" for their health &amp; safety may be underlines in 1-2 sentences e.g. Ghate &amp; Kulkarni, 2023 b- <a href="https://ejst-journal.com/index.php/ejst/article/view/264">https://ejst-journal.com/index.php/ejst/article/view/264</a>.</li> </ol>	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	Yes, the references are adequate except few mentioned above & in the general comments below.	
Minor REVISION comments  Is the language/English quality of the article suitable for scholarly communications?	Yes, the English language is suitable for publication.	
<b>Optional/General</b> comments	<ol style="list-style-type: none"> <li>1) Immunity is mentioned only once in the manuscript. But bioactives have much role to protect/ enhance the immunity of the human body- Ghate &amp; Kulkarni, 2021 <a href="https://www.intechopen.com/chapters/76748">https://www.intechopen.com/chapters/76748</a> &amp; the 2 publications above. This may please be mentioned 1-2 more times to highlight it as immunity is the key to the global health &amp; its decline in the elderly age is a global concern where plant-diet helps.</li> <li>2) Cancer is mentioned a few times &amp; 'reaction' is mentioned once but adverse drug reaction (ADR) of chemotherapy drugs/ radiotherapy needs to be added &amp; bioactives can avoid this as said in Ghate &amp; Kulkarni, 2024- <a href="https://www.geios.com/read/95EWHI">https://www.geios.com/read/95EWHI</a>.</li> </ol>	

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**PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> <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:**

Name:	<b>Utkarsh Ghat</b>
Department, University & Country	<b>India</b>