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| Journal Name: | [**Asian Food Science Journal**](https://journalafsj.com/index.php/AFSJ) |
| Manuscript Number: | **Ms\_AFSJ\_132621** |
| Title of the Manuscript: | **The effect of freeze drying on the nano and micro structures of sugars** |
| Type of the Article | **Original Research Article** |

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| **PART 1: Comments** | | |
|  | **Reviewer’s comment**  **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | **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)* |
| **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.** | **The effect of freeze drying on the nano and micro structures of sugars** |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **Yes** |  |
| **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.** | **No** |  |
| **Is the manuscript scientifically, correct? Please write here.** | Yes, The work presents a scientific activity, using appropriate methodologies for its analysis. | **We thank the reviewers for their careful reading of the manuscript and their constructive remarks** |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | **No, Different parts of the results are not presented, nor discussed and compared with other research.** | **We have taken the comments on board to improve and clarify the manuscript. A detailed point-by-point response to all comments. In the answers-to-the-reviewers document, we indicate the changes introduced to the manuscript (in red color).** |

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| **Is the language/English quality of the article suitable for scholarly communications?** | **Yes, however there are some grammatical errors** | **A native English speaker has carefully edited the revised manuscript. Hope it could make the expressions in this manuscript more clear.**  **Spelling and grammar errors have been checked** |
| **Optional/General comments** | **I believe that the work should be improved.**   1. **In the introduction, the authors are not clear about the benefits that can be obtained in the evaluation of these sugars. I recommend going into more detail about the applications, including the references for each one.** 2. **In the methodology, in scanning electron microscopy, the conditions used for the analysis are not explained. As in several steps of the methodology, it should be more descriptive and references in methodologies should be used if required.** 3. **In results and discussion, in section 3.1, the images are not described, nor are similarities discussed, nor are they compared with other works. Therefore, it is requested that what is observed in figure 3.2 be discussed.**   **Section 3.2, figure 3.3, there is no discussion or description of the results.**  **Table 1 is not called, nor are its results presented, its discussion is very short, and it is not referenced.**  **Figures 6 and 7 can be described and the effects attributed to these behaviours can be mentioned, compared with other works, and the phenomenon observed can be presented.**  **The discussion is separate from the figures and tables, and the results and their discussion can be verified and placed in chronological order. Likewise, errors are observed in the presentation of the figures in the text (Figure S1).**  **In the discussions, there are not enough references to support what the authors have proposed.** | **Thank you very much for your comments and suggestions. The comments and suggestions are valuable and very helpful for revising and improving our manuscript.**  **We have made revisions according to your comments and suggestions**  **We indicate the changes introduced to the manuscript (in red color).**  **The advantages of the FD method and the study's importance have been emphasized both in the introduction and throughout the manuscript.**  **Technical details related to microscopic examinations, as well as the findings, have been comprehensively discussed.**  **Additional explanatory information regarding sample preparation and glass transition temperatures has been included.**  **Clarifying sentences and paragraphs were added to the relevant sections (3.1–3.3).**  **In Section 3.2, Table 1 was referenced in the first paragraph.**  **Further details were provided for Figure 6, as deemed necessary.**  **Figure S1 has been placed in the supplementary section at the end of the manuscript for review if required.**  **9 new references have been added and the reference numbers have been re-arranged.** |

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| **PART 2:** | | |
|  | **Reviewer’s comment** | **Author’s comment** *(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)* |
| **Are there ethical issues in this manuscript?** | *(If yes, Kindly please write down the ethical issues here in details)* |  |