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| Journal Name: | [**European Journal of Nutrition & Food Safety**](https://journalejnfs.com/index.php/EJNFS) |
| Manuscript Number: | **Ms\_EJNFS\_132372** |
| Title of the Manuscript: | **Physico-Chemical and Engineering Properties of Cow and Buffalo Milk based Khoa Powder: A Comparative Study.** |
| Type of the 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.** | Through a thorough comparison of khoa powder made from cow and buffalo milk, this publication makes significant contributions to the scientific community. Our knowledge of how the milk source affects the finished product is improved by quantifying the physico-chemical and engineering qualities, which is essential for processing and quality optimization. Additionally, the study is pertinent to current research trends since its concentration on solar-assisted tray drying is consistent with sustainable food processing methods. Last but not least, the thorough information offered can be used as a starting point for additional study into the uses of khoa powder, especially in creating standardized production processes and improving product quality for the food sector. |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | The title "Physico-Chemical and Engineering Properties of Cow and Buffalo Milk based Khoa Powder: A Comparative Study" is generally suitable, as it accurately reflects the content of the research. |  |
| **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 abstract is confusing to understand because of its imprecise language structure and flow. Furthermore, it makes no mention of the findings' significance or the statistical significance of the disparities that were identified. |  |
| **Is the manuscript scientifically, correct? Please write here.** | The manuscript seems to be mostly scientifically valid based on the excerpt that was provided; nonetheless, some adjustments are needed.1. Although statistical analysis is included, the p-values for each comparison must be stated directly in the text. Determining the statistical significance of the observed changes is challenging without this.
2. There needs to be more evidence to support the choice of 65°C as the drying temperature. The reason for selecting this temperature and whether any exploratory research was done should be covered in the manuscript.
3. The technique used to calculate the final moisture content must be extremely accurate. It is crucial to know the specifics of how the drying end point was established.
4. One possible drawback is the lack of particle size analysis. One important component affecting the physical and technical characteristics of powders is particle size.
5. Despite being widely used, the "lactose by difference" approach is prone to error propagation. This limitation should be acknowledged in the manuscript.
6. More details regarding the architecture of the solar dryer and the methods used to maintain a steady temperature are two examples of explanations that may be clarified.

The areas mentioned above need to be addressed to ensure complete scientific correctness of this manuscript. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention****them in the review form.** | One of the good things about the manuscript is sufficient number of references it has. |  |
| **Is the language/English quality of the article suitable for scholarly communications?** | The content of the manuscript is valuable, the language and English quality is also significant. |  |
| **Optional/General** comments |  |  |

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| **PART 2:** |
|  | **Reviewer’s comment** | **Author’s comment** *(if agreed with the 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 detail)* |  |

**Reviewer details:**

**Sanyogita Shahi, Kalinga University, India**