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REVIEWER'S REPORT

Manuscript No.: **IJAR-55426**

Title: Phytochemical, microbiological and sensory characteristics of tiger nut (*Cyperus esculentus* L.) milk pasteurized at different times.

Recommendation:

Accept as it is
Accept after minor revision.....
Accept after major revision
Do not accept (*Reasons below*)

Rating	Excel.	Good	Fair	Poor
Originality	✓			
Techn. Quality				✓
Clarity	✓			
Significance		✓		

Reviewer Name: Dr. Edwin

Reviewer's Comment for Publication.

The manuscript presents a well-structured and potentially valuable study on the impact of pasteurization time on the quality attributes of tigernut milk, addressing the important issue of adding value to underutilized local resources through an appropriate experimental design and relevant analytical methods. The results demonstrating the heat sensitivity of vitamin C, the relative stability of certain polyphenols, and the effectiveness of pasteurization in reducing microbial load are meaningful contributions to the field. However, the paper requires major revision due to significant problems related to clarity, consistency, and interpretation of data that currently weaken its scientific credibility. Numerous errors and inconsistencies are evident, including mismatches between treatments described in the abstract and methodology, the inclusion of irrelevant materials, mislabeling of tables and figures, incorrect figure referencing, and reliance on outdated microbiological standards. In addition, the presentation of results lacks complete statistical reporting, as significance indicators are provided without essential supporting details such as ANOVA statistics, limiting transparency and interpretability. The discussion remains largely descriptive, reiterating findings without offering sufficient mechanistic explanations for observed trends or exploring their broader implications, and the conclusion oversimplifies the outcomes in ways that are inconsistent with the reported data. Although the study is built on a solid experimental foundation, substantial revisions—particularly the correction of errors, updating of methodologies, comprehensive statistical reporting, and deeper analytical discussion—are necessary to ensure rigor, coherence, and suitability for publication.