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REVIEWER'S REPORT

Manuscript No.: **IJAR-52867** Date: 19-07-2025

Title: Qualité spermatique des mâles de deux populations de tilapia du Nil, Oreochromis niloticus du Burkina Faso

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: Mir Tanveer

Reviewer's Comment for Publication.

Résumé Evaluation:

The résumé provides a clear and comprehensive overview of the study's objectives, methodology, results, and conclusion. It succinctly conveys the purpose of evaluating sperm quality in male broodstock of two Nile tilapia populations in Burkina Faso, using CASA (Computer-Assisted Sperm Analysis). The description of sperm characteristics, including concentration, motility percentages, velocities, and motility durations, is precise and detailed. Statistical distinctions between populations are well presented, and the conclusion is coherent with the findings, affirming that both populations exhibit satisfactory sperm quality.

Mots Clés Evaluation:

The keywords selected are highly relevant and appropriately reflect the core content of the study. They include the species name, methodological terms, and geographic identifiers, ensuring effective indexing and retrieval in research databases.

Abstract Evaluation:

The abstract in English effectively mirrors the information conveyed in the French résumé. It outlines the importance of controlling reproductive traits for strain selection in aquaculture and presents the methodological approach and results in a concise and structured manner. The inclusion of sperm concentration ranges and the lack of significant differences between populations are accurately reported.

Scientific Content and Clarity:

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The paper demonstrates scientific rigor and clarity. The use of CASA technology is appropriate for the analysis, and the study appears to have been conducted with a well-defined methodology. The comparative aspect between the two tilapia populations is well articulated, and findings are presented with appropriate statistical descriptors. The language is precise, and the technical terminology used is suitable for the subject area.

Overall Assessment:

The research provides valuable insights into the reproductive biology of Nile tilapia in Burkina Faso, contributing to the selection and management of broodstock in aquaculture. The methodology is robust, the data is well interpreted, and the conclusions are well supported by the results. The study adds to the understanding of sperm quality variation within local fish populations and its implications for aquaculture development.