

## REVIEWER'S REPORT

Manuscript No.: **IJAR-52757**

Date: July 12, 2025

### Title:

**Profile fatty acid of Chironomidae larvae produced from rabbit manures fish farms in 1 the Guinean forested region**

### 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 Matin Shakoori**

Date: July 12, 2025

### Reviewer's Comment for Publication.

This article presents an innovative method for producing Chironomidae larvae enriched with high-quality fatty acids from rabbit manure, demonstrating significant potential to improve nutrition and reduce costs in local aquaculture systems. The precise analysis of fatty acid composition and emphasis on an optimal  $\omega 6/\omega 3$  ratio highlight the scientific and practical value of the study. This approach can play a key role in promoting sustainable and environmentally friendly practices in the aquaculture industry.

**Recommendation:** Accept after major revision

## Detailed Reviewer's Report

### Strengths

1. **Feed Source Innovation-** The use of rabbit manure as a substrate for producing *Chironomidae* offers a novel, low-cost approach with high potential for live feed production.

2. **Detailed Fatty Acid Analysis-** The study provides a comprehensive quantitative analysis of saturated, unsaturated, and essential fatty acids (such as EPA and DHA), clearly demonstrating the nutritional value of the larvae.

3. **Environmental Sustainability Focus-** The article effectively emphasizes cost reduction and environmental impact mitigation through the use of organic and locally available resources.

4. **Rural Aquaculture Application-** The research addresses the practical needs of small-scale and rural fish farmers, offering an applicable and accessible production method.

5. **Scientific Contextualization-** The results are well compared with previous studies, and the  $\omega 6/\omega 3$  ratio is appropriately interpreted as a key quality indicator.

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### Weaknesses

1. **Poor Scientific Writing-** The manuscript contains weak sentence structures, inconsistent scientific terminology, and numerous grammatical errors that reduce its overall clarity and credibility.
2. **Methodological Ambiguity-** Descriptions of experimental procedures, sample volumes, culture conditions, and lipid analysis methods are incomplete and lack the necessary precision.
3. **Data Inconsistencies-** The total percentages of fatty acids exceed 100%, indicating possible calculation errors or a lack of clarity in the data reporting methodology.
4. **Weak Scientific Discussion-** The interpretation of results is limited and superficial, with insufficient linkage to biological mechanisms or broader scientific context.
5. **Outdated or Incomplete References-** Some references are outdated or not properly cited.