

Review Form 3

Journal Name:	Microbiology Research Journal International
Manuscript Number:	Ms_MRJI_127258
Title of the Manuscript:	Effects of Lactobacillus sporogenes supplementation on growth performance, survival, immune parameters, and disease resistance in Labeo rohita exposed to Aeromonas hydrophila
Type of the Article	

General guidelines for the Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guidelines for the Peer Review process, reviewers are requested to visit this link:

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PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	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)
<p>Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.</p>	<p>Authors carried out the through detailed proximate analysis of dietary ingredients, the study highlights that fish meal and groundnut oil cake contribute substantial protein and fat, crucial for growth. Its demonstrates enhancements in growth metrics like weight gain, specific growth rate (SGR), and feed conversion ratio (FCR) with probiotic supplementation.</p> <p>Over 90 days, the probiotic-supplemented groups (particularly F3) showed improved immunity and resilience against <i>A. hydrophila</i>, evident in higher lysozyme activity and respiratory burst levels compared to the control group. The increased superoxide anion production and higher total serum protein levels in these groups underline the immune benefits of probiotics in <i>Labeo rohita</i>.</p> <p>This aligns with recent studies indicating that probiotics such as <i>L. sporogenes</i> and even certain prebiotics enhance immune responses, disease resistance, and growth in <i>Labeo rohita</i> .The experimental design not well documented in this paper, if the authors include additional details on environmental parameters.</p> <p>Information on water pH, dissolved oxygen levels (mg/L), Dissolved CO2, level, Salinity, and water quality changes would enhance reproducibility.</p> <p>Mortality rate for this study..</p> <p>The experiment was conducted during the month of</p> <p>Experiment replicate details for this study</p> <p>Including high-quality images of the <i>Labeo rohita</i> fingerlings, along with experimental setup, could further illustrate the conditions and experimental design.</p> <p>Recent references on <i>Labeo rohita</i> have also explored the benefits of combined probiotics and prebiotics, which could be referenced to contextualize the results in broader aquaculture trends. These would strengthen the paper.</p>	
<p>Is the title of the article suitable? (If not please suggest an alternative title)</p>	<p>YES</p>	

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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.	YES	
Are subsections and structure of the manuscript appropriate?	YES	
Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.	<p>This aligns with recent studies indicating that probiotics such as <i>L. sporogenes</i> and even certain prebiotics enhance immune responses, disease resistance, and growth in <i>Labeo rohita</i>. The experimental design not well documented in this paper, if the authors include additional details on environmental parameters.</p> <p>Information on water pH, dissolved oxygen levels (mg/L), Dissolved CO2, level, Salinity, and water quality changes would enhance reproducibility.</p> <p>Mortality rate for this study..</p> <p>The experiment was conducted during the month of</p> <p>Experiment replicate details for this study</p> <p>Including high-quality images of the <i>Labeo rohita</i> fingerlings, along with experimental setup, could further illustrate the conditions and experimental design.</p> <p>Recent references on <i>Labeo rohita</i> have also explored the benefits of combined probiotics and prebiotics, which could be referenced to contextualize the results in broader aquaculture trends. These would strengthen the paper.</p>	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	<p>Include few recent research papers on prebiotics and probiotics supplementation to <i>Labeo rohita</i>.....</p> <p>Authors Included only four reference in the year 2023 related to enzymes. My suggestions to Add prebiotics and probiotics supplementation to <i>Labeo rohita</i> ... for 90 days..</p>	
Minor REVISION comments		
Is the language/English quality of the article suitable for scholarly communications?		
Optional/General comments		

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)	

Reviewer Details:

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