



SDI Review Form 1.6

Journal Name:	British Microbiology Research Journal
Manuscript Number:	Ms_BMRJ_30931
Title of the Manuscript:	Enhancement of growth and bioactivities of probiotic bacterium <i>Streptococcus thermophilus</i> as influenced by lactalbumin hydrolysate and inulin supplementation in skimmed milk medium
Type of the Article	Original Research Article

General guideline for 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.

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PART 1: Review Comments

	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)
Compulsory REVISION comments	Author did not mention Table 1, 3, 4 and 5 in the text. Author did not mention Figure 1.4, 1.5, Figure 2, 3 and 4 in the text. The Figure captions may be written below the figure. Author did not mention the standard deviation (SD value) in Figure 1.1, 1.2 and 1.3. Line 9: Abstract: Methodology: Author mentioned that anti-salmonella activities whereas in material and methods as well as results and discussion section it is mentioned as anti-pathogenic property. Clarify. Line 71: Section 2. Material and methods: Author did not mention the source of antibiotics (amoxicillin, ampicillin, amphotericin, ciprofloxacin, omeprazole) and microorganisms <i>Salmonella typhi</i>, <i>Staphylococcus aureus</i> and <i>Candida albicans</i> used in the experiments. Line 169: Section 2.12. Statistical analysis: Author mentioned probability value .05. It is not clear as well as author did not mention the level of significance (p value) throughout the experiments. Line 171-315: Section 3. Results and Discussion: The discussion section has not been explained properly. Author did not compare his results with earlier works. Line 177: Section 3.1. Selection of the production medium: Author mentioned that "The growth of <i>S. thermophilus</i> in SKM was 3.5 and 8.5 times more than lactose and sucrose medium respectively. However, this suggests that sucrose can be used as alternative fermentable carbon source for <i>S. thermophilus</i>." Clarify. Line 191: Section 3.2. Specific growth rate and yield coefficient determination: The author reported that specific growth rate and yield	1. The tables and figures have been mentioned as per the suggestion. 2. The figure captions have been written according to the suggestion. 3. Since the graphs in the figures 1.1, 1.2 & 1.3 the data is expressed as coloni forming units/ml. Hence the deviation among the sample groups is more to calculate the standard deviation. 4. Line 9 has been modified. 5. The source of antibiotics and organisms has been mentioned. 6. P values have been included in the manuscript. 7. The discussion part has been revised according to the suggestion. 8. Line 177- SKM has better growth and so SKM is used further for other assays. The statement has been modified in the manuscript.



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	coefficient as well as Anti-oxidant property, Anti-adhesive property and other properties of <i>Streptococcus thermophilus</i> were found to be maximum at pH 6.5 and 42°C. Then why author did not check the effect of SKM supplemented with 1% lactalbumin hydrolysate and 1% inulin on these properties of <i>S. thermophilus</i> at this optimum condition? Line 225: Figure 1.5: Yield coefficient of <i>S. thermophilus</i>: Author did not mention the Y axis title. Line 237: Section 3.3. Anti-oxidant property of <i>S. thermophilus</i>: Author mentioned that initial pH of 6.5 resulted in the maximum anti-oxidant activity of 94.1 % whereas in Table 2 the value is 94.7%. Line 319: Section 4. Conclusion: Author mentioned that “supplementation of additional nutrients like 1% inulin and 1% lactalbumin hydrolysate in the medium with lactose as major carbon source enhance the bioactivity of <i>S. thermophilus</i> like specific growth rate, yield coefficient and probiotic traits” while author used the skimmed milk medium (SKM) for all the experiments. Clarify. Line 338: References: All the references must be according to the journal format. Grammatical mistakes must be corrected by the author throughout the manuscript.	9. The effect of pH conditions, Lactalbumin hydrosolysate, inulin were compared individually with control to look at the effects due to individual condition. 10. Y axis has been mentioned. 11. Line 237: The typo has been fixed. 12. Line 191: Section 3.2-Skimmed milk medium showed maximum growth. The phrase meant that SKM which contains lactose as major carbon source showed maximum growth. 13. References and grammatical errors have been checked.
Minor REVISION comments	NA	
Optional/General comments		

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