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REVIEWER'S REPORT

Manuscript No.: IJAR-50414 Date: 25/2/2025

Title: Biodegradation of endocrine disruptor Bisphenol A by indigenous microbial consortium of waste water: a case study

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: Ahmed M. Saqr **Date:** 25/2/2025

Reviewer's Comment for Publication.

(*To be published with the manuscript in the journal*)

The reviewer is requested to provide a brief comment (3-4 lines) highlighting the significance, strengths, or key insights of the manuscript. This comment will be Displayed in the journal publication alongside with the reviewers name.

The manuscript presents an important investigation into the biodegradation of Bisphenol A (BPA), a significant environmental pollutant, using indigenous microbial strains. The study offers valuable insights into the potential of microbial bioremediation for BPA degradation, highlighting its relevance in sustainable environmental management. The use of local strains enhances the applicability of this research for practical wastewater treatment solutions.

Detailed Reviewer's Report

Thank you for the opportunity to review the manuscript titled "Biodegradation of endocrine disruptor Bisphenol A by indigenous microbial consortium of wastewater: a case study". This study explores the potential of indigenous microbial strains for the biodegradation of Bisphenol A (BPA), which is a significant environmental pollutant. The study offers interesting insights into microbial bioremediation. However, several sections require substantial revisions for clarity and methodological rigor. Therefore, I recommend a major revision of the manuscript.

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Comments and Suggestions for Authors

1. ***Abstract: The abstract summarizes the study but lacks detailed information on the significance of the results. Can you include more quantitative details about the extent of BPA degradation and the timeframe?***
2. ***Introduction: The introduction provides background information on BPA as an endocrine disruptor but lacks a clearly defined research gap. Could you more explicitly highlight what is novel about this study?***
3. ***Literature Review: The study discusses various bacterial strains capable of BPA degradation. However, the literature review seems incomplete. Can you add more recent studies or broader coverage of relevant works?***
4. ***Methodology: The methodology lacks detailed information about the controls used during the experiments. Can you provide more specifics on how negative and positive controls were managed?***
5. ***Experimental Design: The study discusses various experimental parameters but does not explain how they were optimized. Could you clarify the rationale behind the choice of temperature, pH, and other conditions?***
6. ***Results Interpretation: The results are descriptive but lack sufficient interpretation. Can you provide a more detailed discussion about why certain trends were observed, such as the influence of pH and temperature?***
7. ***Statistical Analysis: There is little information on how the statistical significance of the results was determined. Can you include more details about the statistical methods used?***
8. ***Discussion: The discussion section compares the results with those from previous studies but lacks a critical analysis of potential limitations. Can you address the limitations and uncertainties of your study more explicitly?***
9. ***Figures and Tables: Several figures lack detailed captions and clarity, making interpretation difficult (e.g., Figures 1 and 3). Would you consider improving the figure quality and providing more descriptive captions?***
10. ***Conclusion: The conclusion provides a general summary but lacks specific recommendations for future research. Could you include more detailed suggestions on how this research can be built upon?***