

# Review of: "Techno-Economic Fermentative Microbe-Based Industrial Production of Lactic Acid (LA): Potential Future Prospects and Constraints"

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Potential competing interests: No potential competing interests to declare.

The paper provides a comprehensive overview of the current state of microbial production of lactic acid, highlighting both its potential benefits and existing challenges. The use of clear and concise language facilitates understanding, and the structure of the statement allows readers to grasp key aspects of the topic.

The positive aspects highlighted include the growing interest in microbial production due to exceptional optical purity, cost-effectiveness, and enhanced efficiency. These advantages are likely to capture the attention of readers interested in sustainable and efficient production processes.

On the other hand, the acknowledgment of challenges adds depth to the analysis. Addressing feedstock costs, energy consumption, substrate and end-product inhibition, inhibitory compounds, and lower optical purity indicates a balanced perspective. This not only informs the audience about the hurdles but also sets the stage for potential areas of improvement and further research.

To enhance the statement further, you may consider providing specific examples or recent advancements in addressing some of these challenges. Additionally, the inclusion of any ongoing research efforts or emerging technologies that aim to overcome these obstacles would contribute to the completeness of the review.

In summary, the paper effectively communicates the dual nature of microbial lactic acid production, presenting its advantages and challenges. Further detailing recent developments or potential solutions would enrich the content and maintain the reader's interest.