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REVIEWER'S REPORT

Manuscript No.: IJAR -52771 Date: 12.07.25

Title: Antimicrobial and Antioxidant Activity of Triphala: An Ayurvedic Formulation,

Recommendation:

Accept as it is .....YES.....
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: PROF DR DILLIP KUMAR MOHAPATRA **Date:** 12.07.25

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.

Detailed Reviewer's Report

This study provides a comprehensive evaluation of the antimicrobial and antioxidant activities of Triphala, a traditional Ayurvedic formulation composed of Emblica officinalis, Terminalia chebula, and Terminalia bellerica. The research demonstrates the potential of Triphala as a natural source of antimicrobial and antioxidant agents, supporting its traditional use in Indian medicine.

Strengths

- Comprehensive Phytochemical Screening: The study provides a detailed analysis of the phytochemical composition of Triphala, highlighting the presence of various bioactive compounds.

- Antimicrobial and Antioxidant Activities: The research demonstrates the potential of Triphala as a natural source of antimicrobial and antioxidant agents, supporting its traditional use in Indian medicine.

- Dose-Dependent Antioxidant Activity: The study shows that both ethanolic and aqueous extracts of Triphala exhibit dose-dependent radical scavenging activity, indicating a potential therapeutic application.

Recommendations

- Further Chemical Characterization: Additional research is needed to isolate and characterize the active compounds responsible for the antimicrobial and antioxidant activities of Triphala.

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- **In Vivo Investigations**: In vivo studies are essential to determine the efficacy and safety of Triphala in clinical settings, exploring its potential therapeutic applications.
- **Standardization of Extracts**: Standardized protocols for the preparation and analysis of Triphala extracts would ensure consistency and reliability in future studies.