

REVIEWER'S REPORT

Manuscript No.: IJAR-52878

Date: 18/07/2025

Title: Continuous Improvements in the Product Portfolio of Liposomal Iron by WBCIL to Offer Enhanced Nutraceutical Efficacy and Public Health Safety

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: Sakshi Jaju

Date: 18/07/2025

Reviewer's Comment for Publication.

Abstract:

The abstract is clear and explains the main purpose of the study, which is to improve the quality, stability, and safety of Liposomal Iron supplements produced by WBCIL. The methods used and results obtained are properly mentioned. However, the abstract is a bit too technical and could be made simpler for better understanding.

Introduction:

The introduction explains why Liposomal Iron is better than traditional iron supplements, especially for reducing stomach problems and improving absorption. It clearly describes the company's focus on continuous improvement through modern quality control methods like Lean, Six Sigma, and QbD. The background is well written.

Material and Methods:

The study uses many modern laboratory techniques to examine the quality and stability of Liposomal Iron. Methods like FTIR, SEM, EDAX, DSC, TGA, and DLS are properly explained. The manufacturing process improvements are also well described. The methodology is clear and suitable for the objective of the study.

Result and Discussion:

The study shows Liposomal Iron has a very high encapsulation efficiency (89%). The particle size is small (153.8 nm), which helps in better absorption. The formulation shows excellent stability with no leakage of iron after 6 months. Thermal tests show it can tolerate heat well.

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Relevance and Contribution:

The article is important for the pharmaceutical and nutraceutical industries. It shows how scientific methods and quality control can improve supplement safety and effectiveness.

Clarity and Writing:

The writing is clear but can be improved by shortening some long sentences. Some sections are very technical and can be simplified.

Recommendation:

Manuscript accepted for the publication after minor revision