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REVIEWER'S REPORT

Manuscript No.: IJAR-54073

Title:
CELLULAR TOXICITY INDUCED BY ALCOHOL IN VITRO: COMPARATIVE STUDY OF ANTIOXIDANT, HEPATOPROTECTIVE, ANTI-HEMOLYTIC AND DNA PROTECTIVE ACTIVITY OF NATURAL VS SYNTHETIC VITAMIN C

Recommendation:
Accept as it is .....
Accept after minor revision.....
Accept after major revision .....
Do not accept (*Reasons below*) .....

Rating	Excel.	Good	Fair	Poor
Originality		Good		
Techn. Quality		Good		
Clarity	Excellent			
Significance	Excellent			

Reviewer Name: Dr.Sumathi **Date:** 27/9/2025

Detailed Reviewer's Report

1. **Oxidative stress is a state of imbalance between the production of harmful reactive oxygen species and the body's ability to neutralize them. Alcohol consumption can significantly contribute to oxidative stress leading to various health problems.**
2. **Hepatoprotective activity refers to a substances ability to protect the liver from damage caused by toxins or other harmful agents.**
3. **This protective effect can be achieved by counteracting liver cell damage and dysfunction, which often involves boosting the livers antioxidant defenses.**
4. **The comet assay or single cell gel electrophoresis is a sensitive laboratory technique for measuring DNA damage in individual cells by using electrophoresis to separate damaged DNA fragments into a comet tail which interact DNA forms the comet head.**
5. **Hemolysis refers to the premature destruction of red blood cells. It occurs when the RBC membrane is damaged, leading to the release of hemoglobin and other intracellular components into the bloodstream.**

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6. **The Indian gooseberry, also known as Amla is a deciduous tree native to tropical and southern asia, prized for its highly nutritious, sour, and astringent fruit.**
7. **Summary points must be included.**
8. **Key words are given good**
9. **Results with pictures are good.**
10. **Can be added some relevant pictures.**
11. **And also an be given flow chart of significant points.**
12. **After small corrections good to publish in your journal.**