ISSN: 2320-5407



International Journal of Advanced Research

Publisher's Name: Jana Publication and Research LLP

www.journalijar.com

REVIEWER'S REPORT

Manuscript No.: IJAR-50491

Date: 28/2/2025

Title:

Production, characterization and anticancerous activity of L-asparaginase from Bacillus sp

Recommendation:	Rating	Excel.	Good	Fair	Poor
Accept as it is Accept after minor revision.	Originality		Good		
	Techn. Quality		Good		
Accept after major revision	Clarity	Excellent			
	Significance	Excellent			

Reviewer Name: Dr.Sumathi

Date: 28/2/2025

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.

Anticancer activity is the ability of a substance to prevent, delay, or inhibit the development of cancer. Researchers are continually working to develop new anticancer drugs and therapies.

Detailed Reviewer's Report

- 1. L- asparaginase is an enzyme used as a chemotherapy drug to treat acute lymphoblastic leukemia a type of childhood cancer. It breaks down the amino acid asparagine, which is essential for the growth and survival of cancer cells.
- 2. By depleting asparagine in the body L- asparaginase inhibits the proliferation and causes the death of cancer cells.

International Journal of Advanced Research

Publisher's Name: Jana Publication and Research LLP

www.journalijar.com

REVIEWER'S REPORT

- **3.** Acute lymphoblastic leukemia refers to a type of blood cancer where the bone marrow produces an excessive amount of immature white blood cells called lymphoblasts, leading to a rapidly progressing form of leukemia.
- 4. Essentially, it is a cancer that starts in the lymphocytes a specific type of white blood cell and develops quickly.
- 5. Glutaminase free refers to a form of L asparaginase that does not have glutaminase activity. Glutaminase- free L-asparaginase has been shown to be effective in treating leukemia and solid cancers in mice.
- 6. It is also being studied for use in treating acute lymphocytic leukemia in humans.
- 7. The MTT assay is a colorimetric assay that measures cell viability, proliferation, and cytotoxicity. It is used to assess cell metabolic activity and mitochondrial function.
- 8. Nessler's reagent is a solution used to detect ammonia and ammonium compounds in water. It is a plae yellow alkaline solution that contains potassium iodide, mercury chloride and sodium hydroxide.
- 9. Results and discussion parts should be in separate.
- 10. Results with tables and graphs are good.
- 11. Summary parts should be included.
- 12. Review of informations good. Can be added flow charts of review points.
- **13.** References should be in alphabetical order.