

REVIEWER'S REPORT

Manuscript No.: IJAR- 54500

Title: Investigating the Enzymological Properties of Casease from various organisms: Kinetics, Inhibition, Substrate Specificity and Metal ion Dependent Activity.

Recommendation:

Accept as it is

Accept after minor revision.....

Accept after major revision

Do not accept (*Reasons below*)

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

Reviewer Name: Dr. Sumathi

Detailed Reviewer's Report

1. Proteolytic enzymes also known as proteinases or peptidases are enzymes that break down proteins into smaller peptides or amino acids. They play crucial roles in various biological processes.
2. Casease can refer to either the enzyme that breaks down the milk protein casein or the brand of phone cases called casease. As an enzyme it is a proteolytic enzyme that breaks down casein, use in processes like cheese ripening and in laboratory tests to identify bacteria.
3. Casein hydrolysis is the process of breaking down casein, the main protein in milk, into smaller peptides and amino acids.
4. This breakdown occurs when a specific enzyme, caseinase is present often secreted by microorganisms.
5. Extracellular enzyme production is the synthesis of enzymes by an organism that are then secreted outside the cell to function in the external environment.
6. *Bacillus subtilis* is a type of gram positive rod shaped bacteria commonly found in soil and the digestive tracts of human and animals.

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- 7. It is known for forming tough, heat resistant endospores to survive harsh conditions which has made it a key model organism in microbiology and biotechnology for studying bacterial processes.**
- 8. Research topic is good and informations are given awesome!**
- 9. Key words are good with understandable.**
- 10. Methodology parts are awesome with clear steps.**
- 11. Results part are excellent with tables and graphs.**
- 12. Summary points can be included**
- 13. References should be in alphabetical order.**
- 14. After a small corrections good to publish in your journal.**