



SDI Review Form 1.6

Journal Name:	International Journal of Biochemistry Research & Review
Manuscript Number:	Ms_IJBCRR_31097
Title of the Manuscript:	Temperature induced conformational entropy of α -amylase with and without additive.
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<u>Compulsory</u> REVISION comments	Title: Its just ok. Introduction: Its just fine but you cannot write a sentence like in line #31 But the question is: does unfolding leads to loss of entropy? You should write this sentence in a way that your objectives are clear. In Line#37 the reference you quoted it makes me confused when i checked this reference into the reference part Is it Baxa or Baza? You cannot write a sentence like Review reports has shown that.....You can write it in a way that It has been reported.....and so on. Overall its just fine. Theoretical Background: Too much detail is not required. Write in comprehensive and justified manner with proper objectives and expected outcome. How would you differentiate between conformational flexibility or conformational entropy? Is this the same thing? Materials and Methods: Why you have used only one additive? You can use other salts too. Why you have only used Calcium chloride? Give the details of Bernfeld Method. What do you mean by 1.0g%? Result and Discussion: Its too lengthy. Overall its just ok . Why you have used temperature in K scale? How you have determined the effect of temperature on its catalytic efficiency? References: There are many mistakes in your reference part. Read it carefully and correct these	Thank you. The correct name is Baxa. The theoretical background is the basis of the research. The equations were derived based on empirical observation. Hence being new it called for detailed explanation. The usual practice is to avoid presenting details of a known method except where there is a modification. Some parts of the text have been deleted since explanations available may be sufficient. The usual practice is to explain in detail new methods or a modified known method. However, request for details of well known Bernfeld method is given. Calcium salt, the chloride, in particular is a well known stabilizer for most alpha amylases. This informed the choice of it even if there is stabilizing organic osmolytes. The Catalytic efficiency of an enzyme can be determined at any temperature at which activity is detectable. The standard practise is to convert degree Celsius to Kelvin. But this



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	mistakes.	research is not connected with kinetic studies. The Conformational flexibility of an enzyme is the capacity of the enzyme to take many different shapes called conformers. The higher the number of the conformations or mobility of the enzyme's functional groups as opposed to rigidity as in cold condition, the higher the conformational entropy as shown in the text. However, conformational flexibility could also imply the capacity of the enzyme to increase its hydrodynamic radius which forms the bases of model formulation.
<u>Minor</u> REVISION comments		
<u>Optional/General</u> comments	Good.	Thank for your remark.