



SDI Review Form 1.6

Journal Name:	Asian Journal of Chemical Sciences
Manuscript Number:	Ms_AJOCS_59777
Title of the Manuscript:	A Two-part Approach to the Determination of Intrinsic Rate Constants of an Alpha-amylase Catalysed Reaction.
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/journal/10/editorial-policy>)



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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)
<p>Compulsory REVISION comments</p>	<ol style="list-style-type: none"> 1. electrostatic intermolecular potential energy equation, (ξ_e), It directly depends on the cohesion or cohesive forces among the similar molecules while partially conducting molecule interact with medium that transform the cohesive force into the adhesive force. The adhesive force which develop a thin adhesion layer develop frictional force from moving to respective reacting dipoles for initiating the reaction. Thereby the friccohesity measurements which are the products of the cohesive and frictional forces become a most reliable and required data in such studies. Thus, the higher friccohesity data infers lower activation energy of the reacting species to maintain the rate of a reaction. please include references-Journal of Biochemical and Biophysical Methods, 67, 2-3, 2006, 151-161 and Journal of Molecular Liquids, 244, 2017, 7-18 2. Solute molecules which are immobile in their various positions cannot form an encounter complex let alone solute-solute (e.g. enzyme-substrate) complex. It is fundamental basis of the reaction, which is played by the medium, the medium may allow the solute to be immobilized by developing stronger adhesion or caging. thus, the stronger solute -solvent and stronger solute-solute interactions are also avoided, these indicators are determined with values of the friccohesity. RSC Sachin 3. In line with this view is the claim that "as time increases, the rate coefficient decreases because the enzymes must diffuse to the substrate in order for reaction to occur" [7] following binding which brings motion close to zero. Please include ref: RSC Adv., 2020, 10, 21914. 4. In this research however, the literature material of immense interest and relevant is the work by Shurr [2]. include ref- New <i>J. Chem.</i>, 2020,44, 1825 5. But the implication is that, the intermolecular distance approaches infinity if not infinite, going by the concept of conservative field forces. Biochemical transformation is unlikely at infinite dilution. The values of the k_b and k_f can be determined by fitting the equations in literature [11] to the data generated experimentally. The equations are given in the method subsection. All equations are valuable, please give their bit brief essentials so that it depicts intrinsic mode of molecules. Please include ref- <i>RSC Adv.</i>, 2019, 9, 15805-15835. 6. Overall paper is interesting and has applied valuable equations so there is a need to slightly also give reason about that why these equations had been applied. 7. Please check the grammar. 	



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	<p>8. Where are figs. 2 and 3 because figs 1 and 4 are included.</p> <p>9. These figs are values, explain a significance of the constant line in fig.4.</p>	
Minor REVISION comments		
Optional/General comments		

PART 2:

	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)
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

Reviewer Details:

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