

### Review Form 3

Journal Name:	<a href="#">Asian Journal of Biochemistry, Genetics and Molecular Biology</a>
Manuscript Number:	Ms_AJBGMB_129537
Title of the Manuscript:	Linking the Pre-steady-state, Steady-state, and Zero-order kinetic parameters together for Industrial applications
Type of the Article	Research article

#### **General guidelines for the 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 guidelines for the Peer Review process, reviewers are requested to visit this link:

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#### **PART 1: Comments**

	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.	<ol style="list-style-type: none"><li>1. The title is ok.</li><li>2. The manuscript is versatile because it the title relates to all scientists (Engineers, biochemists, biologists etc)</li><li>3. The knowledge gained can be useful in the industries.</li></ol>	
Is the title of the article suitable? (If not please suggest an alternative title)	ok	
Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.	ok	
Is the manuscript scientifically, correct? Please write here.		
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	ok	

**Review Form 3**

<p>Is the language/English quality of the article suitable for scholarly communications?</p>	<p>ok</p>	
<p><b>Optional/General</b> comments</p>	<ol style="list-style-type: none"> <li>1. the ratio <math>V_{max}:K_M</math>, was 67.88 micromoles l/g min. ? Clarify the value of ratio</li> <li>2. standard quasi-state-state approximation (assumption) (sQSSA); Rectify?</li> <li>3. what is phi?</li> <li>4. The issue will be discussed latter, in this manuscript or elsewhere?</li> <li>5. Define the parameters in eq 1 individually for more clarification</li> <li>6. A plot of <math>[S_0]</math> versus <math>([S_0] + [E_0]M_S/M_2)</math> is linear and a plot of <math>v_i/(v_i + V_{max})</math> versus <math>([S_0] + [E_0]M_S/M_2)</math> cannot. Explain?</li> <li>7. State the assumption made to arrive at eq 3 from eq1</li> <li>8. <math>V_{max}(H)</math> use one either <math>v_{max}</math> or H</li> <li>9. Kindly explain eq 9 such that another researcher can use it</li> <li>10. NO reference to all the preprints mentioned</li> <li>11. In the discussion section , state value of SC using graphical method</li> <li>12. the equivalent of SC, gave an unusually higher value equal to 275.43 mM.l/g min. why?</li> <li><b>13. Therefore, the bone of contention should be how to obtain kinetic data relevant to very high substrate concentrations and possibly the concentration of the product, which are regarded as important factors operating in actual bioprocess situations, such as continuous and batch-type reactors, as well as reversible and irreversible processes. [31] On this issue, it is equally advisable to explore the potential of the salting-in and salting-out effects; are there substances that solubilize highly concentrated substrate and that can be filtered out after every reactor function? This remains a question to be considered by the chemical engineer.</b></li> </ol> <p>It is expected that the obtained results in this work should be utilized in discussing on how to solve the above problems you listed especially in linking the parameters as stated in the title.</p> <p><b>14. Also discuss fully the importance of this work to society in general</b></p>	

**PART 2:**

	<p><u>Reviewer's comment</u></p>	<p><u>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></p>
<p><u>Are there ethical issues in this manuscript?</u></p>	<p><u>(If yes, Kindly please write down the ethical issues here in details)</u></p>	

**Reviewer Details:**

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