



Kasbawati <kasbawati@gmail.com>

216262999 (Biotechnology & Biotechnological Equipment) A revise decision has been made on your submission2 messages

Biotechnology & Biotechnological Equipment <onbehalf@manuscriptcentral.com>

Thu, Mar 10, 2022 at 6:15 PM

Reply-To: diagnosisp@gmail.comTo: kasbawati@gmail.com

10-Mar-2022

Dear Miss Kasbawati:

Your manuscript entitled "An Appropriate Unstructured Kinetic Model Describing the Batch Fermentation Growth of *Debaryomyces hansenii* for Xylitol Production using Hydrolysis of Oil Palm Empty Fruit Bunch", which you submitted to Biotechnology & Biotechnological Equipment, has been reviewed. The reviewer comments are included at the bottom of this letter.

The reviews are in general favourable and suggest that, subject to minor revisions, your paper could be suitable for publication. Please consider these suggestions, and I look forward to receiving your revision.

When you revise your manuscript please highlight the changes you make in the manuscript by using the track changes mode in MS Word or by using bold or coloured text.

In accordance with our format-free submission policy, an editable version of the article must be supplied at the revision stage. Please submit your revised manuscript files in an editable file format.

To submit a revision, go to <https://rp.tandfonline.com/submission/flow?submissionId=216262999&step=1>. If you decide to revise the work, please submit a list of changes or a rebuttal against each point which is being raised when you submit the revised manuscript.

If you have any questions or technical issues, please contact the journal's editorial office at TBEQ-peerreview@journals.tandf.co.uk.

Because we are trying to facilitate timely publication of manuscripts submitted to Biotechnology & Biotechnological Equipment, your revised manuscript should be uploaded by 17-Mar-2022. If it is not possible for you to submit your revision by this date, we may have to consider your paper as a new submission.

Once again, thank you for submitting your manuscript to Biotechnology & Biotechnological Equipment and I look forward to receiving your revision.

Sincerely,
Snejana Pavlova
Executive Editor, Biotechnology & Biotechnological Equipment
diagnosisp@gmail.com

Comments from the Editors and Reviewers:

Editor

Comments to the Author:

1. The journal is currently transitioning to a new style in which the Results are presented separately from the Discussion. Please split "Results and discussion" into "Results" and "Discussion". Apologies for this inconvenience.

2. The main text would benefit from some polishing. For example:

- Omitting some unnecessary phrases, such as "We can observe that ...", would make the text easier to read.

- Avoiding passive voice would make the text easier to read, e.g.:

"Different simulation results are found at the comparison of..." -> The comparison of... revealed/produced different simulation results. Or The results ... were different.

3. Please upload your revised manuscript in an editable file format.

Reviewer: 1

Comments to the Author

In this manuscript, the authors aim to define an appropriate unstructured model describing the growth kinetics of *D. Hansenii*. Hydrolysis of empty oil palm clusters was used as a substrate. The following models were studied - Monod, Aiba and Ghose-Tyagi to approximate the data in xylitol fermentation. After the simulation, the Monod model turned out to be the most suitable model for growth kinetics. The comparison was made by the values of the objective function for the three models.

In their study, the authors emphasize that the maximum growth rate has a high sensitivity to maximum production of new cells and xylitol as the main product. There is a certain maximum growth rate of yeast cells, which generate maximum production of new cells and xylitol with a relatively short fermentation time. This result shows that the growth rate parameter plays an important role in regulating the fermentation process for optimal purposes.

Recommendation: Let the three kinetic parameters for inhibition - X_c , S_c and P_c , be described in model (1). Because it is not immediately clear what these parameters of the model are.

Kasbawati <kasbawati@gmail.com>
To: Ashary Latief <ariejurnal@gmail.com>

Thu, Mar 10, 2022 at 7:09 PM

Assalamualaikum pak Ari,

Alhamdulillah, paperku yg satu **sudah accepted juga**. Terlampir email dr penerbitnya.

Paper ini output dari penelitian dengan judul:

**Judul Penelitian: Analisis Regulasi Proses Metabolisme Sel Ragi
Saccharomyces Cerevisiae melalui Pendekatan Pemodelan Kinetika Enzim
dan Metabolic Control Analysis**

Ketua: Dr. Kasbawati

Judul paper: An Appropriate Unstructured Kinetic Model Describing the Batch Fermentation Growth of *Debaryomyces hansenii* for Xylitol Production using Hydrolysis of Oil Palm Empty Fruit Bunch

Nama Jurnal: Biotechnology & Biotechnological Equipment

Minta tolong kita update dataku di LP2M. Jadi tidak adami utangku, alhamdulillah.

Terima kasih pak ari.

Kasbawati
Applied Mathematics Laboratory
Mathematics Study Program
Hasanuddin University
Makassar, South Sulawesi, Indonesia

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