

## Review Form 1.7

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|--------------------------|--|
| Journal Name:            | <b>International Journal of Plant &amp; Soil Science</b>   |
| Manuscript Number:       | <b>Ms_IJPSS_103710</b>   |
| Title of the Manuscript: | <b>Mycelium performance of medicinally important fungus (<i>Cordyceps militaris</i>) on different pH and temperature</b> |
| Type of the Article      | <b>Original Research Article</b>   |

### **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:

(<https://www.journalijpss.com/index.php/IJPSS/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><b>Compulsory</b> REVISION comments</p> <ol style="list-style-type: none"> <li>1. <b>Is the manuscript important for scientific community?</b><br/>(Please write few sentences on this manuscript)</li> <li>2. <b>Is the title of the article suitable?</b><br/>(If not please suggest an alternative title)</li> <li>3. <b>Is the abstract of the article comprehensive?</b></li> <li>4. <b>Are subsections and structure of the manuscript appropriate?</b></li> <li>5. <b>Do you think the manuscript is scientifically correct?</b></li> <li>6. <b>Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</b></li> </ol> <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p> | <ol style="list-style-type: none"> <li>1. The article studies the effect of temperature and pH of the fungus (<i>Cordyceps militaris</i>) on its mycelial growth and dry biomass, However, this study has already been carried out by different authors giving conditions similar to those reported, so that in the discussion of results and the conclusion a contribution to the scientific community is not shown since it lacks support for the importance of these conditions.</li> <li>2. The title does not show the innovation and/or contribution of the research, it is suggested to restructure it.</li> <li>3. The summary complies with summarizing the results obtained from the investigation, however the relevance of having obtained the pH and temperature conditions found is not shown, since there are already many reports of these conditions.</li> <li>4. The subsections and the distribution of the manuscript is appropriate.</li> <li>5. The manuscript is considered to develop the scientific method.</li> <li>6. Although it has enough references, they are not updated since only 3% of the references are updated to no more than 5 years, while there are references from 1951, 1958, 1984, 1987, 1996, 1998, 1999, so it is It is strongly recommended that the sources consulted be updated, until at least 70% of references are updated.</li> <li>7. It is suggested to include a discussion of results based on the description of the phenomena that make a condition of pH or temperature affect in which part of the metabolism for micellar growth and/or dry biomass.</li> <li>8. In the introduction it should be established why it is necessary to study the pH and temperature conditions as well as other factors that influence the production of the metabolites of interest as well as mycelial growth and biomass since the importance is not clear of the investigation.</li> <li>9. It is suggested to include the study of the important metabolites, which are favored by changing the temperature and pH conditions.</li> <li>10. It is recommended to carry out a reasoned discussion to mention the importance of each result.</li> <li>11. At the conclusion, they should highlight the importance of having culture conditions of pH 7 and a temperature of 22 °C when you want to produce the fungus in series.</li> </ol> |   |
| <p><b>Minor</b> REVISION comments</p> <ol style="list-style-type: none"> <li>1. <b>Is language/English quality of the article suitable for scholarly communications?</b></li> </ol>   | <ol style="list-style-type: none"> <li>1. A grammar check is recommended in the written article.</li> </ol>   |   |
| <p><b>Optional/General</b> comments</p>   | <ol style="list-style-type: none"> <li>1. Improve the quality of the images and unify them. The results presented show the same data in the table as in the graph, so it is considered that the information is repeated. It does not establish rigorous statistical analysis to support the results.</li> </ol>   |   |

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**PART 2:**

|   | <b>Reviewer's comment</b>  | <b>Author's comment</b> <i>(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)</i> |
|---|--|---|
| <b>Are there ethical issues in this manuscript?</b> | <i>(If yes, Kindly please write down the ethical issues here in details)</i> |   |

**Reviewer Details:**

|                                  |   |
|----------------------------------|---|
| Name:                            | <b>Maria Belem Arce Vazquez</b>   |
| Department, University & Country | <b>Tecnológico Nacional de México, Tecnológico de Estudios Superiores de Ecatepec, México</b> |