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| Journal Name: | [**Journal of Advances in Biology & Biotechnology**](https://journaljabb.com/index.php/JABB) |
| Manuscript Number: | **Ms\_JABB\_139865** |
| Title of the Manuscript: | **Effect of Growing Media on Vegetative Growth Parameters of Broccoli (Brassica oleracea L. var. italica) under Soilless Cultivation"** |
| Type of the Article |  |

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| **PART 1: Comments** | | |
|  | **Reviewer’s comment**  **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | **Author’s Feedback** (It is mandatory that authors should write his/her feedback here) |
| **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.** | This manuscript explores the effect of various soilless growing media combinations on vegetative growth parameters of broccoli, which is highly relevant in the context of sustainable agriculture and protected cultivation. With increasing global emphasis on organic and residue-free food production, the findings offer practical insights into substrate optimization, potentially enhancing crop productivity in non-soil systems. The  outcomes also support urban and peri-urban farming initiatives, where space and soil quality are limiting factors. Hence, the study holds agronomic, ecological, and commercial significance. | The manuscript is based on the experiment we conducted and results we got |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | Yes | The title of is very important and there is no changes in article title |
| **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.** | The abstract includes the core experimental setup and key findings, but it lacks precision and clarity in sentence structure please follow abstract composition of abstract as introduction/background, purpose, methodology, results, and conclusion. There is redundancy in the mention of treatments and growth parameters. Writer should Avoid repeating treatment ratios in multiple places. Summarize key results more concisely with its applications. Writer should include one conclusive sentence linking results to practical application. Writer should Remove general background information and focus more on results and conclusions. | The abstract is based on the experiment conducted and the results obtained by the experiment.There is no addition or detection of any sentence in abstract. |
| **Is the manuscript scientifically, correct? Please write here.** | **Partially.**  The experimental design using RBD with replications is appropriate, and the data support the conclusions. However, there are gaps in scientific depth. Authors should include No standard errors, LSD, or CVs reported. Reviewer found Lack of detail on growing media composition (e.g., pH, EC, nutrient profile).  Author should include some Environmental parameters inside the polyhouse are not provided, which can significantly influence results and Discussion is mostly descriptive; mechanistic or physiological interpretation is minimal. | There are many morphological parameters in experiment so we have not taken the environment parameters so the we have grown broccoli ingrown bags so we have not taken ph EC values |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | It is suggested to add Some frequently cited references (e.g., Dharnesh, 2019) are outdated and overused. The manuscript would benefit from citing more recent literature (last 5 years) from SCOPUS/Web of Science- indexed journals. Reviewer advise to include recent studies on soilless substrates in leafy/cole crops from *Horticultural Science, Agronomy, or Journal of Plant Nutrition and always* Consider referencing works on nutrient uptake dynamics in soilless media. | The reference are enough based on requirement of our research crop we have taken the reference |

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| **Is the language/English quality of the article suitable for scholarly communications?** | No. The reviewer found the manuscript requires significant editing for grammar, sentence structure, and scientific clarity. There are frequent typographical errors, inconsistent formatting, and poor figure/table descriptions. A professional language revision is strongly recommended before acceptance. | The description we have kept is enough for tables |
| **Optional/General** comments | The submitted manuscript titled "Effect of Growing Media on Vegetative Growth Parameters of Broccoli (Brassica oleracea L. var. italica) under Soilless Cultivation" presents findings relevant to horticultural practices, particularly in controlled-environment agriculture. The study is timely and of practical importance to researchers and practitioners focusing on sustainable vegetable cultivation.  However, several aspects require revision before the manuscript can be considered for publication:   1. Language and Grammar: The manuscript needs extensive English editing to ensure clarity, professional tone, and proper grammar. Sentence structure should be improved throughout the document. 2. Scientific Rigor: While the experimental design and data collection appear valid, the discussion section contains repetitive justifications and lacks depth in comparative analysis with previous studies. 3. Ethical Statement: An ethical compliance statement should be added, even if no specific approval was required. Additionally, a conflict of interest declaration must be included. 4. Plagiarism Concern: There are multiple instances where the language used is closely paraphrased from previously published works (e.g., Dharnesh, 2019; Arancon et al., 2004). Authors are advised to rephrase such content in their own words and ensure proper attribution. A plagiarism check is recommended prior to resubmission. 5. References: Most references are appropriate and relevant; however, authors should include more recent literature (post-2020) to support their discussion, especially in soilless cultivation and substrate optimization. 6. Figures and Tables: All tables and figures should be properly numbered, titled, and referred to in the main text. The manuscript should ensure uniform formatting and high-resolution figures suitable for publication.   Abstract and Title: The abstract should be made more concise and result-oriented,  and the title could be slightly shortened to enhance clarity. |  |

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| **PART 2:** | | |
|  | **Reviewer’s comment** | **Author’s Feedback** (It is mandatory that authors should write his/her feedback here) |
| **Are there ethical issues in this manuscript?** | *(If yes, Kindly please write down the ethical issues here in details)* |  |