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| Journal Name: | [**Asian Journal of Chemical Sciences**](https://journalajocs.com/index.php/AJOCS) |
| Manuscript Number: | **Ms\_AJOCS\_134048** |
| Title of the Manuscript: | **Green synthesis, characterization of tetrazole derivatives, and evaluation of bacterial and fungal activity** |
| 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** *(Please correct the manuscript and highlight that part in the manuscript. 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.** | 1. **This research reveals tetrazole compounds with promising antibacterial and antifungal activity, opening new avenues for developing more effective drugs against infectious diseases.** 2. **Amid growing antibiotic resistance, this research offers innovative solutions using tetrazole compounds, contributing to addressing this global health challenge.** 3. **The importance of this research goes beyond the medical field, as triazoles, in particular, could contribute to the development of plant fungicides and bactericides, thus freeing agriculture from**   **the use of harmful substances.** | | |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **I suggest the title be as follows:**  **Green synthesis, characterization of tetrazole derivatives, and evaluation of their antibacterial and antifungal activity** | | |  |
| **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.** | **It is suggested that the summary include compounds with antifungal activity and compounds with strong antibacterial activity in comparison to the medicines utilized in the study.** | | |  |
| **Is the manuscript scientifically, correct? Please write here.** | **The manuscript is scientifically correct. However, it is preferable to address some previous studies in which other tetrazole derivatives were prepared.** | | |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | **The references are sufficient and recent. It is preferable to add a reference to the paragraph " Furthermore, society expects chemists to create more sustainable and environmentally friendly chemical processes " written in the introduction after reference number 3.** | | |  |
| **Is the language/English quality of the article suitable for scholarly communications?** | **English quality is suitable for scholarly communications** | | |  |
| **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?** | | *(If yes, Kindly please write down the ethical issues here in details)* |  | | |

**Reviewer details:**

**Mohammad M Al-Tufah, Iraq**