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| Journal Name: | [**Asian Journal of Biology**](https://journalajob.com/index.php/AJOB) |
| Manuscript Number: | **Ms\_AJOB\_141072** |
| Title of the Manuscript: | **DPPH, ABTS and Antibacterial Efficacy of Methanol Flower Extract of Peltophorum Pterocarpum (DC.) Backer ex K. Heyne** |
| Type of the Article | **Original Research 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.** | The manuscript investigates the antioxidant and antibacterial properties of methanol flower extract of Peltophorum pterocarpum. The study is relevant as it explores the potential of natural products in pharmacology. However, there are several areas that require attention to improve the scientific robustness and clarity of the manuscript. | This is an preliminary work. |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **Yes**, the title is suitable as it accurately reflects the scope of the study. | --- |
| 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 provides a decent overview of the study. However, it could be more concise and impactful. The results are presented in a slightly confusing manner. For instance, stating the zone of inhibition as "1.5 mm with respect to the positive control Streptomycin (2.2mm)" is a bit unclear. It would be better to state the result for the extract and the control separately. | Now I have made it clear. |
| Is the manuscript scientifically, correct? Please write here. | The manuscript has a decent scientific basis, but there are some points that need clarification and correction for improved accuracy:   * ​**Extraction Method:** The manuscript states that fresh flowers were washed and then wiped with a dry cotton cloth before being ground into a fine powder. It is unclear if a drying step was performed before grinding. This is a crucial detail as the presence of moisture can affect the extraction efficiency. * ​**DPPH Assay Wavelength:** The absorbance for the DPPH assay was measured at 590 nm. The standard wavelength for DPPH radical scavenging activity is typically between 515-517 nm. The authors should provide a justification for using 590 nm or re-evaluate their methodology. * ​**Statistical Analysis:** The manuscript lacks statistical analysis. To claim that the results are "significant" or "remarkable," a proper statistical treatment of the data is necessary. This is particularly important for the antibacterial assay to compare the different concentrations and the activity against the two bacterial strains. * ​**Clarity in Tables:** In Table 1 and Table 2, the headings are a bit confusing. It would be clearer to have separate columns for the standard and the sample with their respective concentrations, optical densities, and percentage of inhibiti | Extraction method is clearly mentioned. Statistical analysis for antioxidant assays have clearly done and for antibacterial activity only well diffusion method has done , for this statistical data will not be required. |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | The references are largely relevant to the study. However, many of the cited articles are quite dated. The authors should include more recent studies to show how their work fits into the current state of research in this area. For instance, a recent study on various antioxidant assays could provide a good comparative framework.  ​**Suggested additional reference:**   * ​Ishola, O., Ojo, I. E., Babatunde, E. T., Iyiola, A. T., Fabiyi, T. O., & Adeyanju, A. A. (2025). Determination of Antioxidant Capacity in Aqueous Extracts of *Corymbia citriodora* Using DPPH, ABTS, FRAP, TPC, and Hydrogen Peroxide Assays. *Asian Journal of Research in Biochemistry*, 15(3), 171-178. | ---- |
| Is the language/English quality of the article suitable for scholarly communications? | The language quality needs improvement. There are several grammatical errors and awkward sentence constructions that affect the readability of the manuscript. A thorough proofreading by a native English speaker or a professional editing service is highly recommended. For example, phrases like "could be the paveway for the further research work in detail" could be rephrased for better clarity. | Yes thank you for your feed back. |
| Optional/General comments |  |  |

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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 detail)* |  |