

Review of: "Evaluation of Antioxidant Activity and α -Amylase Inhibitory Potential of *Melilotus indicus* Ethanolic Extract: An In Vitro and In Silico Study"

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Potential competing interests: No potential competing interests to declare.

Abstract

1. The scientific name of a plant must be italicized. Please revise the entire text accordingly.
2. Change "0.49 mg/g $\pm$ 3.818" to "0.49 $\pm$ 3.818 mg (QE)/g."
3. The binding score should be rounded to fewer decimal places.

Introduction

4. The problem or significance of the research is unclear. Please revise to demonstrate why your work is important.
5. Clearly state the objective of this study, as the hypothesis and objectives were not clearly presented.

Materials and Methods

6. For Figure 1, please change the figure legend to 'Leaves (A) and flower (B) of *Melilotus indicus*' and add the labels A and B to the figure.
7. For Figure 2, please provide more detail in the figure legend, such as an explanation of the symbols on the map.
8. In the extraction process, it is stated, 'The filter was transferred to a clean Petri dish and left to dry at room temperature.' However, after drying, please clarify how the crude extract was collected or stored before analysis.
9. In the determination of flavonoid content, what was the concentration of the ethanolic extract, and how was the extract prepared? Please provide additional details.
10. In section 2.4.1, provide the full name of DPPH when it is mentioned for the first time.
11. What is "The Erenler et al. (DPPH) method? Please clarify.
12. In section 2.4.1, provide the exact concentration of the ethanolic acid, rather than a range of concentrations.
13. In 2.4.1, change "for (0.5) hours" to "for 0.5 hours"

14. Change “The radical (%) inhibition was calculated for the (DPPH) by the below equation” to “The radical scavenging (%) was calculated by the below equation.”
15. Change Table 2 to a Figure and include the source of the figure in the figure legend.
16. For Figure 3, provide more detail in the figure legend to explain the structure.

Results and discussion

17. The equation for calculating the percentage yield should be moved to the Materials and Methods section.
18. The $\pm$ SD should follow the mean value, formatted as 0.49 ± 3.82 mg QE/g extract. The standard deviation (SD) should be rounded to two decimal places.
19. Add more discussion on the flavonoid content in the *Melilotus* ethanolic extract, comparing it with previous studies on the same species or genus.
20. Add more discussion on the p-value of antioxidant activity.
21. Add more discussion on the antioxidant activity of *Melilotus* ethanolic extract, comparing it with previous studies on the same species or genus.
22. Add more discussion on the relationship between flavonoid content, antioxidant activity, and the results of the docking study.