

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.

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

Thank you for the opportunity to review the above manuscript. My comments are as follows:

- 1. The novelty of the present study is questionable!!! What is the rationale for the present study looking at the underlisted studies:
- Ahmed, D., Baig, H., & Zara, S. (2012). Seasonal variation of phenolics, flavonoids, antioxidant and lipid peroxidation inhibitory activity of methanolic extract of Melilotus indicus and its sub-fractions in different solvents. International Journal of Phytomedicine, 4(3), 326-332.
- Ahmed, S. A. K., & Al-Refai, M. (2014). Chemical constituents and cytotoxic activities of the extracts of Melilotus indicus. European Journal of Chemistry, 5(3), 503-506.
- Sonju, J. J., Islam, M. F., Sutradhar, K., & Akter, T. (2017). Analysis of phytochemical, antioxidant and microbial property of various extracts of the plant Melilotus indica. World Journal of Pharmaceutical Research, 6(4), 29-47.
- Iftikhar, H., Ahmed, D., & Qamar, M. T. (2019). Study of phytochemicals of Melilotus indicus and alpha-amylase and lipase inhibitory activities of its methanolic extract and fractions in different solvents. ChemistrySelect, 4(26), 7679-7685.
- Paun, G., Neagu, E., Albu, C., Savin, S., & Radu, G. L. (2020). In vitro evaluation of antidiabetic and anti-inflammatory activities of polyphenolic-rich extracts from Anchusa officinalis and Melilotus officinalis. ACS omega, 5(22), 13014-13022.
- 1. Authors need to enrich the introduction part as it is very shallow with no review of literature on the antidiabetic and antioxidant activities of the plants.
- 2. The map is not necessary for this study....
- 3. One antioxidant assay cannot be used to conclude on the overall antioxidant capacity of the plant.
- 4. How sure are you that these compounds docked are in the extract used?



I SUGGEST A REJECTION FOR THE MANUSCRIPT

Thank you.