

Review Form 3

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| Journal Name: | Journal of Scientific Research and Reports |
| Manuscript Number: | Ms_JSRR_123678 |
| Title of the Manuscript: | Evaluation of Antioxidant Activity and α -Amylase Inhibitory Potential of Melilotus indicus Ethanolic Extract: An In Vitro and In Silico Study |
| Type of the Article | Research Article |

PART 1: Review Comments

| <u>Compulsory</u> REVISION comments | Reviewer's comment | Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i> |
|--|---|---|
| Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part. | <ul style="list-style-type: none"> Natural Antioxidants: It contributes to the understanding of the plant's potential as a natural source of antioxidants, which can help protect cells from oxidative damage and reduce the risk of chronic diseases. Diabetes Management: The α-amylase inhibitory activity suggests that the extract could potentially be beneficial for managing diabetes by slowing down the breakdown of carbohydrates into glucose. Drug Discovery: The docking study provides insights into the potential mechanisms of action of the bioactive compounds, which could inform the development of new drug candidates based on these natural compounds. | |
| Is the title of the article suitable? (If not please suggest an alternative title) | Yes | |
| 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. | Yes | |
| Are subsections and structure of the manuscript appropriate? | Yes | |
| Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part. | <ul style="list-style-type: none"> Comparison with Other Plants: Comparing the antioxidant and α-amylase inhibitory activities of M. indicus extract to other known natural sources could provide a broader context and highlight its unique properties. Mechanism of Action: The docking study provides insights into the potential binding of chlorogenic acid and kaempferol to α-amylase. Further studies could investigate the precise mechanism of action of these compounds and their potential interactions with other enzymes involved in glucose metabolism. | |
| Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. | Yes | |
| <u>Minor</u> REVISION comments | | |
| Is the language/English quality of the article suitable for scholarly communications? | Yes | |
| <u>Optional/General</u> comments | There are few typos, author should rectify. | |

Review Form 3

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) |
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| Are there ethical issues in this manuscript? | <i>(If yes, Kindly please write down the ethical issues here in details)</i> | |

Reviewer Details:

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| Name: | Laxmikant Kamble |
| Department, University & Country | Swami Ramanand Teerth Marathwada University, India |