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| Journal Name: | [**European Journal of Medicinal Plants**](https://journalejmp.com/index.php/EJMP) |
| Manuscript Number: | **Ms\_EJMP\_138709** |
| Title of the Manuscript: | **Antioxidant, Cytotoxicity and In vitro Anti-inflammatory Study on the Different Extracts of Stems and Roots of the Two Medicinal Plants: Cassia sophera and**  **Jatropha curcas.** |
| Type of the Article |  |

**PART 1: Comments**

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|  | |  |  | | --- | --- | | **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer** | | | **review.** |  |   **Reviewer’s comment** | **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.** | This manuscript provides a comparative analysis of the antioxidant, cytotoxic, and anti-inflammatory properties of different extracts from *Cassia sophera* and *Jatropha curcas*. By evaluating various solvents and plant parts, the study highlights specific extract combinations with significant bioactivity, supporting their potential as sources of natural therapeutic agents. The findings contribute to the growing body of research on plant-based pharmacology and offer valuable insights for future drug development and phytochemical investigations. |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | Yes. It is apt. |  |
| **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 currently reads more like a detailed results section rather than providing a clear and engaging summary of the study's intent and significance. It lacks an introduction that outlines the research problem or rationale, and it doesn’t include a concise conclusion that emphasizes the broader implications of the findings. To encourage readers to explore the full manuscript, the abstract should be rewritten to include a brief background, the study's aim, a summary of key findings, and a concluding statement highlighting the potential impact or relevance of the work. |  |
| **Is the manuscript scientifically, correct? Please write here.** | The manuscript reads like an older research project, possibly adapted from a dissertation chapter conducted over a decade ago. While the results section is strong and well-presented, the introduction is outdated and lacks engagement with recent literature. This weakens the manuscript’s relevance and makes it difficult for readers to understand how the current findings contribute to ongoing scientific discourse. To improve the manuscript, the authors should significantly revise the introduction, incorporating recent studies (preferably from the last 5–7 years) that highlight advancements in phytochemical screening, natural antioxidant studies, and plant-based drug discovery. A clearer articulation of the research gap of the study would also strengthen the manuscript's overall impact. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | The sentence *“When DPPH accepts an electron donated by an antioxidant compound, the DPPH is decolorized, which can be quantitatively measured from the changes in absorbance”* requires a proper citation. While the authors have referenced foundational studies, many of these are outdated. Relying only on older literature limits the contextual relevance of the manuscript and reduces the opportunity to highlight recent advancements in antioxidant evaluation. It is recommended that the authors include more recent peer-reviewed citations (from the last 5–10 years) to support the mechanism and to better position their findings within current scientific developments. |  |
| **Is the language/English quality of the article suitable for scholarly communications?** | The manuscript is readable, and the language is generally clear and appropriate for scientific communication. While some minor grammatical or stylistic edits may enhance flow in certain sections, the overall writing quality does not hinder comprehension. |  |
| **Optional/General** comments | **This manuscript requires a major revision of the introduction section. The current version lacks recent literature and does not adequately frame the rationale or significance of the study. Updating this section with current references and a clearer articulation of the research gap would greatly improve the manuscript’s scientific relevance. Additionally, the abstract would benefit from refinement to better highlight the study’s objectives and broader impact, rather than focusing predominantly on results. A more engaging and structured abstract will help draw reader interest and provide a stronger overview of the work.** |  |

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| **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:**

**Deepthi Yadav Chappidi, Louisiana Tech University, USA**