

Review Form2

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|--------------------------|------------------------------------------------------------------------------------------------------------|
| Book Name:               | Current Perspectives in Agriculture and Food Science                                                       |
| Manuscript Number:       | Ms_BPR_2433                                                                                                |
| Title of the Manuscript: | Effect of Extracting Solvents on the Phyto-chemical Properties of Fermented Pawpaw (Carica papaya L.) Seed |
| Type of the Article      | Book chapter                                                                                               |

PART 1: Review Comments

| Compulsory REVISION comments                                                                                                                                                                                                         | Reviewer's comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Author's Feedback(Please 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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| Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimumof 3-4 sentences may be required for this part.                        | This manuscript is important as it evaluates how different solvents affect the phyto-chemical properties of fermented pawpaw seeds. Its findings can guide more effective extraction methods, which are crucial for maximizing the health benefits of pawpaw seeds. I appreciate this study for its practical relevance and detailed analysis, which can improve the application of pawpaw seeds in various fields.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                             |
| Is the title of the article suitable? (If not please suggest an alternative title)                                                                                                                                                   | Yes, the title "Effect of Extracting Solvents on the Phyto-chemical Properties of Fermented Pawpaw (Carica papaya L.) Seed" is suitable. It clearly reflects the study's focus on how different solvents impact the phyto-chemical properties of pawpaw seeds, which are fermented.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                             |
| 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.                                                                          | <b>Context and Importance:</b> Add a brief sentence on why the study of different extraction solvents is important for the application of pawpaw seed extracts.<br><b>Implications:</b> Include a sentence discussing the implications of the lower Peroxide Value (PV) and Thiobarbituric Acid Value (TBA) for the petroleum ether extract compared to others.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                             |
| Are subsections and structure of the manuscript appropriate?                                                                                                                                                                         | <b>The structure of your manuscript is generally appropriate, but here are a few suggestions for improvement:</b><br><b>1. Introduction:</b> The introduction effectively sets the stage for the research. It provides a background on antioxidants and polyphenols and explains the importance of evaluating extraction methods. However, consider adding a brief overview of the specific objectives of your study to give readers a clear idea of what your research aims to achieve.<br><b>2. Materials and Methods:</b> This section is detailed and well-organized, covering the preparation of samples, extraction methods, and both qualitative and quantitative analysis.No Suggestion<br><b>3. Results and Discussion: The results and discussion section is clear, with data presented in tables and text. Consider the following:</b><br><b>o Comparisons:</b> Compare your findings with existing literature to highlight the significance of your results.(Optional) |                                                                                                                                                             |
| 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 minimumof 3-4 sentences may be required for this part. | The manuscript is scientifically robust and technically sound due to its use of established methods for evaluating antioxidant activities and polyphenol content. The comprehensive experimental procedures and clear data presentation support the reliability of the findings.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                             |
| Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.<br>:                                                                                             | The references listed are quite comprehensive and cover a broad range of relevant topics, including the antioxidant properties of Carica papaya seeds, methods of analysis, and biochemical assessments. However, some references are quite dated (e.g., 1985, 1993), and more recent sources could enhance the manuscript's relevance.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                             |

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| Minor REVISION comments<br><br>Is the language/English quality of the article suitable for scholarly communications? | The language and English quality of the article appear suitable for scholarly communication. |  |
| Optional/General comments                                                                                            |                                                                                              |  |

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:

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|----------------------------------|--------------------------------|
| Name:                            | M Mahesh                       |
| Department, University & Country | KLE College of Pharmacy, India |