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| Journal Name: | [**International Journal of Biochemistry Research & Review**](https://journalijbcrr.com/index.php/IJBCRR) |
| Manuscript Number: | **Ms\_IJBCRR\_134308** |
| Title of the Manuscript: | **Process intensification for the delignification of the dried plant leaves (Jackfruit Artocarpus heterophyllus tree leaves) by hydrotropic extraction.** |
| Type of the Article | **Original Research Article** |

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| PART 1: Comments | | |
|  | Reviewer’s comment **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | 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)* |
| **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 presents a green, solvent-free method for extracting lignin from jackfruit leaves using hydrotropic extraction. It contributes to the field of biomass utilization, offering an environmentally friendly alternative to conventional delignification methods. The study is well aligned with sustainable resource management and circular economy principles. Its use of agricultural waste aligns with global efforts to reduce biomass-related environmental impact. |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | The title is generally appropriate and descriptive. However, consider simplifying it slightly for clarity: 'Hydrotropic Extraction for Process Intensification in Delignification of Dried Jackfruit (Artocarpus heterophyllus) Leaves.' |  |
| 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 contains the key components but requires refinement for clarity and grammar. Avoid awkward phrasing like 'component is lost unused'. A clearer statement of methods and results would improve readability. |  |
| Is the manuscript scientifically, correct? Please write here. | The manuscript is scientifically sound and presents a robust experimental methodology. The optimization of parameters and extensive lignin characterization support the validity of the results. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | The references are sufficient and include recent literature. However, the literature review could be more concise and comparative. Consider including a review article on green chemistry or biorefinery to broaden the context. |  |
| Is the language/English quality of the article suitable for scholarly communications? | The English language and grammar need significant improvement. Many sentences are awkwardly constructed or unclear. Professional proofreading is recommended. |  |
| Optional/General comments | The manuscript covers an important topic with practical applications. The experimental section is detailed and methodologically sound. However, improvements are needed in grammar, clarity, and structure. A summary table of optimized conditions and a process flow diagram would enhance the manuscript’s readability and presentation. |  |

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| **PART 2:** | | |
|  | None identified. | Author’s comment *(if agreed with the 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?** |  |  |

**Reviewer Details:**

**Alvin Garcia Palanca, University of The Philippines Diliman, Philippines**