



SDI Review Form 1.6

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| Journal Name: | Journal of Agriculture and Ecology Research International |
| Manuscript Number: | Ms_JAERI_47966 |
| Title of the Manuscript: | Percentage Yield and Characteristics of Lecithin Produced from some Elite Varieties of Nigerian Sesame (<i>Sesamum indicum</i>) |
| Type of the Article | ORIGINAL RESEARCH PAPER |

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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PART 1: Review Comments

| | 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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| Compulsory REVISION comments | Title suggestion: 1) Determination of quality parameters of Lecithin extracted from some Elite Varieties of Nigerian Sesame (<i>Sesamum indicum</i>) 2) Assessment of physicochemical properties of Lecithin extracted from some Elite Varieties of Nigerian Sesame (<i>Sesamum indicum</i>) | The title has been edited in line with the reviewer's suggestion. Suggested title number 1 here has been adopted with a little modification. (see yellow colour marked text) |
| Minor REVISION comments | <p>Abstract Line 11&12, ... oil was extracted from four (4) varieties of sesame using soxhlet extraction method (keep it simple!). Line 22-29, "his study has....sesame value chain in Nigeria" should be moved to conclusion section</p> <p>Introduction Line 39 and line 4 (of abstract) are the same. Please recap one of them. Line 41, "the compound which..." Do you mean lecithin?? Can we have molecular formula and/or structure of lecithin? Line 45, check the correct name of <i>1,2-diacylglycerro-3-phosphorylcholine</i> Line 50, what are these <i>essential ingredients</i> needed in animal ration? Line 105-111, detail amount spent on annual importation of lecithin might be necessary</p> <p>Materials and method Line 137, how was the temperature of 4⁰C provided? Also represent the correct unit of temperature Line 139, proximate analysis of what? Line 141, the protein and ash content of what? Line 141-145, for the purpose of reproducibility, details of the analytical procedures are required Line 149, extraction of seed oil should come before proximate analysis (line 139) Line 154, 2:1 volume ratio (be specific, what is 2 and what is 1). Also, is it soybean or sesame seed oil you are extracting? Line 161, what is the unit of temperature? Also give the quantity of water in "ml" instead of percentage (%) Line 164&165, detail of how lecithin was purified or concentrated after isolation is necessary Line 167-172, details of the physicochemical determination procedures are required for the purpose of reproducibility and authentication of results obtained Line 167, how can we be sure that what you produced is lecithin? Any instrumental analysis that confirms the structure of lecithin produced can be of help</p> <p>Result and discussion Line 251&284, how were the percentage yields of oil and lecithin computed in table 2 and table 4? Also, optimize the titles of all your tables (they are too lengthy)</p> <p>Conclusion and recommendation Is the quantity of lecithin produced from sesame oil seeds enough to justify local production as against importation? What are other production methods that could possible enhance the percentage yields of sesame oil and subsequently, lecithin?</p> | <p>Corrected as suggested. (see yellow colour marked texts)</p> <p>Molecular formula of Lecithin has been provided as suggested by the reviewer(marked with yellow text)</p> <p>Fatty acids has been included in this phrase(marked in yellow texts). Approximate referenced amount has been provided as suggested(marked with yellow texts)</p> <p>Corrected as suggested and marked with yellow texts.</p> <p>Corrected as suggested and marked with yellow texts.</p> <p>Appropriate quantity of water used as been stated instead of percentage.(marked with yellow texts)</p> <p>All methods used for the physicochemical analysis standard method which has been referenced accordingly, thus, are all reproducible</p> <p>Calculations leading to the computation of the yield tables i.e 2 nd 4 has been included as a subsection in the materials and methods section.(marked with yellow texts)</p> <p>Quantity is enough to bridge importation but may not be enough to replace importation entirely, conclusion segment has been recap to accommodate this.</p> |



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| Optional/General comments | Check the manuscript preparation guide for sectional and reference formatting. Also, check grammatical errors. | Reference formatting is in line with preparation guide provided. Grammatical errors have been duly checked by the authors saddled with grammatical check responsibility. |
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PART 2:

| | Reviewer's comment | Author's comment <i>(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)</i> |
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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> | No ethical issue whatsoever. |