

### Review Form 3

Journal Name:	<a href="#">Current Journal of Applied Science and Technology</a>
Manuscript Number:	Ms_CJAST_127919
Title of the Manuscript:	Effect of improved cultivars and maturity stage on physical parameters, chemical indices and fatty acid composition of virgin coconut oils from Ivorian coconut germplasm
Type of the Article	Original Research Article

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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 guidelines for the Peer Review process, reviewers are requested to visit this link:

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**Review Form 3**

**PART 1: Comments**

	<b>Reviewer's comment</b>	<b>Author's Feedback</b> <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
<b>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.</b>	The study gives valuable insights into how cultivar selection and maturity stages impact the quality attributes of virgin coconut oil, which is essential for improving its consistency and nutritional profile. By evaluating the physical, chemical, and fatty acid compositions, the research contributes to a deeper understanding of the factors influencing coconut oil's health benefits and processing efficiency. Findings from the research may guide breeding programs and production practices, ultimately advancing coconut oil as a functional food and natural product in both the food and cosmetic industries.	
<b>Is the title of the article suitable? (If not please suggest an alternative title)</b>	<b>Yes</b>	
<b>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>	<b>Brief statement of the problem, contribution to knowledge and recommendation</b>	
<b>Is the manuscript scientifically, correct? Please write here.</b>	Yes	
<b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b>	Yes	
<b>Is the language/English quality of the article suitable for scholarly communications?</b>	Yes	
<b>Optional/General</b> comments	<p><b>Statement of the Problem:</b> Coconut oil quality is influenced by various factors, including cultivar type and maturity stage, yet the impact of these factors on the physical, chemical, and fatty acid composition of virgin coconut oil remains underexplored, particularly in Ivorian coconut germplasm. As coconut oil production continues to rise globally, understanding these influences is crucial for optimizing oil quality, health benefits, and marketability.</p> <p><b>Contribution to Knowledge:</b> The research will provide a comprehensive analysis of how different coconut cultivars and maturity stages affect the key properties of virgin coconut oil, including its physical characteristics, chemical indices, and fatty acid composition. The findings will contribute to advancing knowledge in coconut oil quality improvement and will serve as a guide for selecting optimal cultivars and harvest timings for better oil production in Côte d'Ivoire and similar tropical regions.</p> <p><b>Recommendation:</b> It is recommended that future research focus on the development of coconut cultivars with enhanced oil quality traits, incorporating the optimal maturity stages for harvesting. Additionally, further studies on the processing methods and their influence on the final oil composition should be undertaken to ensure maximum nutritional and commercial value.</p>	

**PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> <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>
<b>Are there ethical issues in this manuscript?</b>	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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