

### Review Form 3

Journal Name:	<a href="#">Asian Journal of Applied Chemistry Research</a>
Manuscript Number:	Ms_AJACR_121623
Title of the Manuscript:	<b>Oxidation in Vegetable Cooking Oils: Synthetic versus Natural Antioxidants</b>
Type of the Article	Review Article

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

<https://r1.reviewerhub.org/general-editorial-policy/>

#### **Important Policies Regarding Peer Review**

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**PART 1: Review Comments**

<b>Compulsory</b> REVISION comments	Reviewer's comment	<b>Author's Feedback</b> (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. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.	The topic is relevant and of interest for the development and improvement of Synthetic and Natural Antioxidants using Vegetable Cooking Oils. I strongly recommend addressing the shortcomings without fail for further progress. I look forward to receiving your revised manuscript.	
Is the title of the article suitable? (If not please suggest an alternative title)	Oxidation in Vegetable Cooking Oils: A Comparative Review of Synthetic and Natural Antioxidants	
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.	Significantly improve the problem statement and outcomes in the abstract. Clarify and refine to better communicate the essence of the research.	
Are subsections and structure of the manuscript appropriate?	structure of the manuscript can be: 1. Introduction and Background 2. Comparative Analysis 3. Effectiveness and Efficiency 4. Health Implications 5. Environmental and Economic Considerations 6. Current Research and Developments 7. Conclusion and Recommendations Based on this sub heading can be added	
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 minimum of 3-4 sentences may be required for this part.	The manuscript delves deeply into the mechanisms, effectiveness, and potential limitations of different antioxidants, ensuring a thorough understanding of their roles. Additionally, it highlights the health implications, environmental impact, and economic considerations, making it a valuable resource for food technologists, researchers, and consumers.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	Update references to include more recent publications. Ensure references are selected from the year 2019 onwards.	

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<p>Minor REVISION comments</p> <p><b>Is the language/English quality of the article suitable for scholarly communications?</b></p>	<p>The manuscript requires improvement in language usage and grammar. We recommend having native speakers review and revise the text to eliminate any errors.</p>	
<p>Optional/General comments</p>	<ol style="list-style-type: none"> <li>1. <b>Language and Grammar:</b> The manuscript requires improvement in language usage and grammar. We recommend having native speakers review and revise the text to eliminate any errors.</li> <li>2. <b>Highlights:</b> Highlights to effectively convey the message. Ensure each highlight is within 80 characters, including spacing.</li> <li>3. <b>Abstract - Problem Statement:</b> Significantly improve the problem statement in the abstract. Clarify and refine to better communicate the essence of the research.</li> <li>4. <b>Introduction - Length and Interest:</b> Shorten the initial three paragraphs of the introduction to a single, more engaging paragraph.</li> <li>5. <b>Introduction - Background Knowledge:</b> Enhance the background knowledge on the Vegetable Cooking Oils used for Natural Antioxidants. Clearly justify the novelty of your findings compared to relevant literature.</li> <li>6. <b>Introduction - Novelty Presentation:</b> Clearly present the novelty of your work by comparing the results with those reported in previous literature.</li> <li>7. <b>Reference Update:</b> Update references to include more recent publications. Ensure references are selected from the year 2019 onwards.</li> <li>8. <b>Include a block diagram depicting the Synthetic versus Natural Antioxidants with essential parameters and equipment details.</b></li> <li>9. <b>Future Prospects:</b> Add a section at the end of the discussion highlighting the future prospects of your work.</li> <li>10. <b>Conclusion - Conciseness:</b> Condense the conclusion for clarity and precision.</li> <li>11. <b>References Formatting:</b> Avoid presenting references as lumps; organize them appropriately.</li> </ol>	

**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)
<p><b>Are there ethical issues in this manuscript?</b></p>	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p>	

**Reviewer Details:**

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