

Review Form 3

Journal Name:	Asian Journal of Applied Chemistry Research
Manuscript Number:	Ms_AJACR_121623
Title of the Manuscript:	Oxidation in Vegetable Cooking Oils: Synthetic versus Natural Antioxidants
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:

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Important Policies Regarding Peer Review

Peer review Comments Approval Policy: <https://r1.reviewerhub.org/peer-review-comments-approval-policy/>

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PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
<p>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.</p>	<p>This manuscript is important for the scientific community because it addresses a critical area of food science by comparing the effects of synthetic and natural antioxidants on vegetable oil stability. The comprehensive analysis of existing studies and experimental investigations provides valuable insights that can guide future research and practical applications in the food industry. By highlighting the potential health benefits and effectiveness of natural antioxidants, the manuscript supports the development of safer and more sustainable food preservation methods. I appreciate the manuscript's thorough approach and its focus on both the scientific and practical implications, making it a useful resource for researchers, food technologists, and consumers alike.</p>	
<p>Is the title of the article suitable? (If not please suggest an alternative title)</p>	<p>The title "Oxidation in Vegetable Cooking Oils: Synthetic versus Natural Antioxidants" is clear and descriptive, accurately reflecting the content of the manuscript. However, for improved clarity and impact, an alternative title could be:</p> <p>"Comparative Analysis of Synthetic and Natural Antioxidants in Preventing Oxidation of Vegetable Cooking Oils"</p> <p>This title emphasizes the comparative aspect and the focus on oxidation prevention, which might attract more interest from researchers and professionals in the field.</p>	
<p>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.</p>	<p>The abstract is comprehensive and well-structured, covering the main points of the review. However, a few minor adjustments could enhance clarity and completeness:</p> <ol style="list-style-type: none"> 1. Specify the types of edible oils: Mentioning specific types of vegetable oils could provide more context and make the abstract more informative. 2. Clarify the health impacts: Briefly mentioning the specific health impacts of synthetic antioxidants could strengthen the rationale. 3. Highlight the methodologies: A brief mention of the methodologies used in the reviewed studies could add depth. 4. Summarize key findings: Highlighting some specific findings or trends observed in the reviewed studies could make the abstract more compelling. 	
<p>Are subsections and structure of the manuscript appropriate?</p>	<p>The structure and subsections of a review manuscript are crucial for ensuring that the content is organized logically and is easy for readers to follow. Additional Suggestions:</p> <ol style="list-style-type: none"> 1. Introduction: <ul style="list-style-type: none"> ○ Ensure that the introduction provides a clear overview of why the comparison between synthetic and natural antioxidants is significant. 2. Detailed Comparative Analysis: <ul style="list-style-type: none"> ○ Include tables or figures summarizing key comparative data to enhance clarity and provide visual aid. 3. Case Studies: <ul style="list-style-type: none"> ○ Where possible, incorporate real-world case studies or experimental results to support the theoretical comparisons. 4. Health Implications: <ul style="list-style-type: none"> ○ Provide specific examples of the health implications of synthetic antioxidants to underscore the importance of exploring natural alternatives. 5. References: <ul style="list-style-type: none"> ○ Ensure that the reference section is comprehensive and up-to-date, including the most 	

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	<p>recent studies and reviews in the field.</p> <p>Following this structure will help in creating a thorough and well-organized manuscript that is informative and valuable to the scientific community.</p>	
<p>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.</p>	<p>This manuscript is scientifically robust and technically sound because it systematically reviews a wide range of scientific studies and experimental investigations, providing a comprehensive analysis of oxidation phenomena in vegetable oils. The inclusion of both synthetic and natural antioxidants, along with their mechanisms, effectiveness, and limitations, ensures a balanced and thorough evaluation. By highlighting specific health impacts and regulatory concerns associated with synthetic antioxidants, the manuscript underscores the relevance of exploring natural alternatives. The detailed comparative analysis, supported by experimental evidence, adds to the scientific rigor and reliability of the conclusions drawn.</p>	
<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</p> <p>=</p>	<p>Based on the provided references, they encompass a broad range of studies and publications related to the stability, antioxidant properties, and quality assessment of edible oils. However, there are a few considerations to ensure that the references are sufficient and up-to-date:</p> <ol style="list-style-type: none"> 1. Recency: Some references are relatively old (e.g., from 2003, 2006, 2010), and it would be beneficial to include more recent studies to reflect the latest advancements in the field. 2. Source Variety: The references come from diverse journals and sources, which is good for providing a comprehensive view. However, including more high-impact journals and recent reviews or meta-analyses could strengthen the reference list. 3. Coverage of Key Areas: Ensure all key aspects of the topic are covered, including new methodologies, recent findings on natural antioxidants, and current trends in oil stability and fortification. <p>Additional Recent References to Consider:</p> <ol style="list-style-type: none"> 1. Recent Reviews and Meta-Analyses: 2. Current Research on Natural Antioxidants: 3. Recent Studies on Edible Oil Stability: 	

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<p>Minor REVISION comments</p> <p>Is the language/English quality of the article suitable for scholarly communications?</p>	<p>The language and English quality of the article are generally suitable for scholarly communications. However, there are a few minor revisions that could enhance clarity and readability:</p> <ol style="list-style-type: none">Grammar and Punctuation:<ul style="list-style-type: none">Ensure consistent use of punctuation, especially in lists and citations.Correct any grammatical errors, such as subject-verb agreement and proper use of articles (a, an, the).Sentence Structure:<ul style="list-style-type: none">Simplify complex sentences to improve readability. For example, break down long sentences into shorter, more manageable ones.Ensure that each sentence clearly conveys a single idea.Technical Terminology:<ul style="list-style-type: none">Verify that technical terms are used accurately and consistently throughout the text.Provide definitions or explanations for any specialized terms that may not be familiar to all readers.Flow and Coherence:<ul style="list-style-type: none">Ensure that paragraphs flow logically from one to the next. Use transitional phrases where necessary to connect ideas.Maintain a clear and consistent structure throughout the article, with well-defined sections and subsections.Stylistic Consistency:<ul style="list-style-type: none">Use a consistent style for headings, subheadings, and citations.Ensure uniform formatting for all references, following the specified citation style.	
<p>Optional/General comments</p>	<p>The article is well-researched and provides a thorough analysis of the topic. Here are some optional/general comments that might enhance the overall quality and impact of the work:</p> <ol style="list-style-type: none">Abstract:<ul style="list-style-type: none">Ensure the abstract succinctly summarizes the key findings and significance of the study. It should provide a clear overview without investigating into too much detail.Introduction:<ul style="list-style-type: none">Provide a brief background on the importance of the study. Highlight the gap in existing research that this article addresses.Clearly state the objectives of the study.Literature Review:<ul style="list-style-type: none">Consider adding a brief review of relevant literature to provide context for your study. Highlight how your work builds on or diverges from previous research.Methodology:<ul style="list-style-type: none">Ensure the methodology section is detailed enough for replication. Include any specific procedures, materials, and analytical techniques used.If applicable, mention any limitations or potential sources of bias in your methodology.Results and Discussion:<ul style="list-style-type: none">Present results clearly, using tables, graphs, or figures where appropriate. Ensure all visual aids are well-labeled and referenced in the text.In the discussion, interpret the results in the context of the broader field. Explain the implications of your findings and how they advance knowledge in the area.Conclusion:<ul style="list-style-type: none">Summarize the key findings and their significance. Avoid introducing new information in the conclusion.	

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	<ul style="list-style-type: none">○ Suggest potential areas for future research based on your findings. <p>7. References:</p> <ul style="list-style-type: none">○ Ensure all references are complete and formatted according to the journal's guidelines.○ Consider citing recent and relevant literature to demonstrate the currency of your research. <p>8. Clarity and Precision:</p> <ul style="list-style-type: none">○ Strive for clarity and precision in your writing. Avoid jargon unless it is standard in the field and define it when first used.○ Use active voice where possible to make the writing more engaging. <p>9. Figures and Tables:</p> <ul style="list-style-type: none">○ Ensure that all figures and tables are of high quality and contribute meaningfully to the text.○ Provide descriptive captions for all figures and tables. <p>10. Peer Review:</p> <ul style="list-style-type: none">○ Before submission, consider having colleagues or mentors review the article. Fresh perspectives can help identify areas for improvement that you might have missed. <p>Implementing these optional suggestions can enhance the overall quality and readability of your article, making it more impactful and easier to engage with for a scholarly audience.</p>	
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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>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

Reviewer Details:

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