

Review Form 3

Journal Name:	Archives of Current Research International
Manuscript Number:	Ms_ACRI_129528
Title of the Manuscript:	Biochemical and phytochemical characteristics of different cultivated tomato varieties and their juice
Type of the Article	Original 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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PART 1: 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>
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 provides important scientific insights by comparing the biochemical and phytochemical characteristics of two commercial tomato varieties and their juice forms, offering valuable data for both agricultural and processing applications. The research contributes significantly to our understanding of varietal differences in nutritional composition, particularly in key components like ascorbic acid and lycopene. The findings are especially relevant for food scientists and manufacturers, as they help inform variety selection and processing decisions based on specific nutritional parameters.	
Is the title of the article suitable? (If not please suggest an alternative title)	To make it more precise and informative, I could suggest a minor modification: "Comparative analysis of biochemical and phytochemical characteristics of 'Abhinav' and 'Anand Roma' tomato varieties and their juice	
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.	To improve the abstract, the following suggestions are made: <ol style="list-style-type: none"> 1. Introduction Clarity: The purpose of the study should be clearly stated, explaining why these particular tomato varieties were chosen and how this analysis contributes to existing knowledge. 2. Methods Detail: Including a brief description of the specific methodologies used for biochemical and phytochemical analysis (e.g., for measuring lycopene and ascorbic acid) would enhance the understanding of the experimental design. 3. Results Refinement: More emphasis should be placed on the comparative aspect of the findings, specifying the range of significant differences between the tomato varieties (e.g., acidity, ascorbic acid, lycopene content). 4. Conclusion: The abstract would benefit from a concluding remark on the relevance or potential applications of the study, providing a more complete summary of the findings. 	
Is the manuscript scientifically, correct? Please write here.	The manuscript presents valuable data but could benefit from enhanced methodological transparency, more detailed analysis, and stronger integration of findings with current literature.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	Suggestions for improvement: <ol style="list-style-type: none"> 1. Recent studies: Consider adding more recent papers (from 2023 or 2024) related to advancements in tomato biotechnology, biofortification, and nutritional health benefits. 2. Review articles: Including a few more comprehensive reviews published in the last 3-5 years could 	

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	<p>provide a broader perspective on the current understanding of tomato-based interventions and innovations.</p> <p>3. Research on tomato varieties: Adding recent research on emerging tomato varieties or new biofortification techniques could strengthen the relevance of the literature.</p>	
<p>Is the language/English quality of the article suitable for scholarly communications?</p>	<p>Summary of Areas for Improvement:</p> <p>1. Grammatical and Stylistic Adjustments:</p> <p>Correct subject-verb agreement: "were analyzed" instead of "was analyzed." Specify "the" before measurement units (e.g., "the degree Brix"). Maintain consistency in verb tense (e.g., "ranged" instead of "ranges").</p> <p>2. Use of Consistent Terminology:</p> <p>Standardize terms like "Total soluble solids (TSS)" and "degree Brix" (preferably use one term). Be consistent with "varieties" or "var." throughout.</p> <p>3. Punctuation and Capitalization:</p> <p>Change "non-significant" to "not significant" for clarity. Clarify magnitude of difference in results (e.g., "significantly higher").</p> <p>4. Clarification of Results:</p> <p>Provide clearer connections between results and processing conditions (e.g., ascorbic acid decrease linked to temperature, time, or oxygen exposure).</p>	
<p>Optional/General comments</p>	<p>Ensure all in-text references follow the correct citation style.</p> <p>Methodology Description:</p> <p>Add more detail on statistical methods, particularly on the "independent T test" and how significance was calculated.</p> <p>Specific Suggestions:</p> <p>Use "non-significant ($p > 0.05$)" and "significant ($p < 0.05$)" consistently. Improve transitions between tables and discussion for better readability, with clearer explanations of results</p>	

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

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