

Review Form 3

Journal Name:	Asian Journal of Research in Crop Science
Manuscript Number:	Ms_AJRCS_124462
Title of the Manuscript:	DETERMINATION OF OIL CONTENT AND FATTY ACID COMPOSITION OF TEA PLANTS AT PLANTATIONS IN THE BLACK SEA REGION
Type of the Article	Original Research Article

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PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	Author's Feedback (Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<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 holds importance for the scientific community as it provides valuable insights into the fatty acid composition and oil content of <i>Camellia sinensis</i> seeds, which have significant potential for applications in the food and cosmetic industries. By analyzing samples from different regions of the Northern Black Sea, the study offers region-specific data that can inform targeted cultivation practices, optimizing oil quality for various uses. The use of advanced methods like GC-MS and Principal Component Analysis strengthens the reliability of the results. However, the manuscript could benefit from more specific data presentation and a clearer link between the findings and their broader industrial or ecological implications.</p>	
<p>Is the title of the article suitable? (If not please suggest an alternative title)</p>	<p>Yes the title is suitable</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 provides a clear outline of the study's aim, methodology, and results but could benefit from more specificity and refinement for better clarity. While the aim is stated effectively, explaining the broader relevance of determining the fatty acid composition of <i>Camellia sinensis</i> seeds would strengthen the introduction. The methodology section is detailed but could be more concise and precise, especially regarding sample collection and analysis. The results mention high oleic acid content and regional differences, but providing actual values or clearer descriptions of the differences would add depth. The conclusion is relevant, though it could be more impactful by directly linking the results to practical implications for oil production. Overall, the abstract is informative but can be improved with a more focused presentation of the study's significance, detailed findings, and future applications.</p>	
<p>Are subsections and structure of the manuscript appropriate?</p>	<p>The structure and subsections of the manuscript are well-organized and appropriate for the content presented. The introduction effectively establishes the significance of tea seeds and outlines the necessity for suitable commercial practices. In the Materials and Methods section, the determination of oil content and fatty acid composition is detailed, providing clear methodologies for sample collection, preparation, and analysis, though adding calibration details for the precision scale could enhance credibility. The Results and Discussion section effectively conveys findings related to oil content and fatty acid profiles, but incorporating comparisons with existing literature and discussing the health implications of specific fatty acids would strengthen the analysis. Overall, the manuscript maintains coherence and readability, with clear labeling of tables and figures being crucial for effective data presentation. A robust conclusion summarizing key findings and suggesting future research directions will further enhance the manuscript.</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>The manuscript demonstrates scientific robustness and technical soundness through its meticulous methodology and comprehensive analysis. The determination of oil content and fatty acid composition is carried out using established protocols, ensuring reliability in the results. Furthermore, the detailed presentation of findings, including the quantitative assessment of various fatty acids, supports the validity of the conclusions drawn. The authors also contextualize their results within the broader field of research, which enhances the scientific credibility and relevance of the work. Overall, the manuscript adheres to rigorous scientific standards, making a valuable contribution to the understanding of tea seed oil characteristics.</p>	
<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. =</p>	<p>The references in the manuscript appear to be sufficient and cover a range of relevant topics related to tea seed oil and fatty acid composition. However, it's important to ensure that the majority of the cited works are recent, ideally from the last five years, to reflect the latest advancements in the field. If there are older references, consider replacing them with more current studies or reviews that address similar topics. For additional references, you may want to include recent research articles from reputable journals</p>	

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	focusing on oil extraction, fatty acid analysis, and applications of tea seed oil. Journals such as the "Journal of Agricultural and Food Chemistry," "Food Chemistry," and "Journal of the American Oil Chemists' Society" could provide valuable recent studies. If specific articles are identified during your review process that enhance the discussion or findings, be sure to suggest them in the review form.	
<u>Minor REVISION</u> comments Is the language/English quality of the article suitable for scholarly communications?	The language and overall quality of English in the article are generally suitable for scholarly communication. The manuscript uses appropriate scientific terminology and presents ideas in a clear and structured manner. However, there may be instances of awkward phrasing or grammatical errors that could benefit from careful proofreading and editing. Ensuring the clarity of complex concepts and maintaining a formal tone throughout the manuscript will enhance its readability and professionalism. A thorough review by a native English speaker or a professional editing service could help refine the language further and ensure it meets the standards of academic publishing.	
<u>Optional/General</u> comments		

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

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