

Review Form 1.7

Journal Name:	Asian Journal of Food Research and Nutrition
Manuscript Number:	Ms_AJFRN_100240
Title of the Manuscript:	Physico-chemical and Fourier Transform Infrared Spectra Analysis of Sweet Italian (<i>Capsicum annuum</i>) and Habanero (<i>Capsicum annuum</i>) Peppers Consumed in Benue State, Nigeria
Type of the Article	Original Research Article

General guideline for 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 guideline for Peer Review process, reviewers are requested to visit this link:

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PART 1: Review Comments

	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>Compulsory REVISION comments</p> <p>1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript)</p> <p>2. Is the title of the article suitable? (If not please suggest an alternative title)</p> <p>3. Is the abstract of the article comprehensive?</p> <p>4. Are subsections and structure of the manuscript appropriate?</p> <p>5. Do you think the manuscript is scientifically correct?</p> <p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</p> <p>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</p>	<p>Yes. The composition data would be useful for quality control for growers.</p> <p>It is very length. I suggest: Compositional analysis of Sweet Italian (<i>Capsicum annuum</i>) and Habanero (<i>Capsicum annuum</i>) Peppers Consumed in Benue State, Nigeria</p> <p>Yes</p> <p>Yes Yes. Needs revision as suggested.</p> <p>Yes</p>	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>Poor quality English. It needs to be improved for proper understanding of the subject.</p>	
<p>Optional/General comments</p>	<p>. The manuscript investigates and compares the nutritional composition of capsicum peppers of different varieties. The results presented will be quite useful for assessment of nutrition and quality aspects of capsicum. The manuscript is worth publishing. However, major revision is recommended before it is published.</p> <p>Abstract: The composition data of HNP should also be given in the abstract for real comparison. The IR wavenumber/frequency data of the functional groups as mentioned in the abstract are not correct. The authors are required to interpret the IR spectra with respect to characteristic bands corresponding to proteins, carbohydrates etc. Accordingly, it should be given.</p> <p>Introduction: Minerals as Na, K etc are micronutrients, and not the Macro. It should be corrected in the introduction and other sections of the manuscript. The introduction of some of the analytical techniques including FT- IR may be given in the section. This will apprise the readers to understand their importance in the characterisation of composition of samples in study.</p> <p>Materials: What types of solvent are used in Soxhlet extraction? It is missing in the section 2.4.3. What are the experimental conditions including recording parameters of FTIR recording are used?</p> <p>Results and discussion:</p>	

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	<p>These are not presented properly to understand the results and significance of the so many analytical test conducted and given. It is particularly with respect to the FTIR analyses. The frequency/wavenumber of the functional groups are wrongly interpreted. For instances, olefinic and amine groups wavenumber data is not correctly mentioned.</p> <p>What is the identity of amine and olefinic groups in the samples?. To which these groups are corresponding?</p> <p>It would be advisable to interpret the FT-IR spectra for the identification of components such as proteins, carbohydrates, fats etc . The bands corresponding to various functional groups characteristic of these components should be identified and highlighted in the spectra. These are definitely appearing in both the spectra. Otherwise, the presentation of spectra and compilation of bands in the Frequency Table are worthless, and will not serve any purpose.</p> <p>The spectra can also be used for comparison of the composition of two samples.</p> <p>The proximate composition of components mentioned in the Table 1, indicate difference/variation in the range of 5 to 10%. This may be in the precision (repeatability etc.) range of the tests performed. To my opinion, there is practically no difference in the composition of components in both the samples. The FT-IR spectra also indicated the similar pattern. It is advised that authors must interpret the spectra properly, and derive the useful information.</p> <p>Grammatical errors: The English language is poorly used. Some of the sentences are difficult to understand and draw any conclusion. These are highlighted in red in the manuscript. The words such as Fibre, fecal etc. needs to be checked</p> <p>Foaming capacity equation is missing in the section 2.3.4. ML to ml. What type of a solvent is used in Soxhlet extraction in Section: 2.4.3</p>	
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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>	

Reviewer Details:

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