

Review Form 3

Journal Name:	Asian Journal of Food Research and Nutrition
Manuscript Number:	Ms_AJFRN_126186
Title of the Manuscript:	PROXIMATE AND PHYTOCHEMICAL ANALYSIS OF CUCUMBER (CUCUMIS SATIVUS L.CV PIPINO) AND WATERMELON (CITRULLUS LANATUS (THUNB.) MATSUM AND NAKAI CV RED.
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)
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>1. Introduction:</p> <p>A taxonomical description of <i>Cucumis sativus</i> and <i>Citrullus lanatus</i> is recommended.</p>	Cucumber belongs to the Family: Cucurbitaceae, Subfamily: Cucurbitoideae, Tribe: Melothriaceae, Subtribe: Cucumerinae, Genus: Cucumis and Species: <i>Cucumis sativus</i> L. (Swamy, 2023). Watermelon family is Cucurbitaceae, a subdivision of the Cucurbitales order (Subrahmanyam, 2004). Watermelons are placed under Citrullus genus with <i>Citrullus lanatus</i> as the species name.
Is the title of the article suitable? (If not please suggest an alternative title)		
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>2. Materials and method:</p> <ul style="list-style-type: none">This section is well written. However, providing the formula for the calculation of moisture content and ash content is recommended.Mention the reference for quantitative analysis of saponins.Mention the reference for qualitative analysis of tannin.Mention the reference for qualitative analysis of glycosides.Mention the reference for qualitative analysis of oxalates.The method of statistical analysis used for this study is recommended to be mentioned at the end of this section.	<ul style="list-style-type: none">Moisture content (%) = $\frac{W2 - W3}{W2 - W1} \times 100$ where, W1 = weight of empty container; W2 = weight of container and sample before drying; and W3 = weight of container and sample after drying. % ASH = $\frac{\text{ashed weight.} - (\text{crucible weight.})}{(\text{crucible and sample weight.}) - (\text{crucible weight.})} \times 100$Reference for quantitative analysis of saponins: Harborne, J.B. (1973). Phytochemical Methods: A Guide to Modern Techniques of Plant Analysis, Chapman and Hall, London, UK. pp 49-18Reference for qualitative analysis of tannin: Ejikeme C. M., Ezeonu C. S., and Eboatu A. N. (2014)' Determination physical and phytochemical constituents of some tropical timber indigenous to Niger Delta Area of Nigeria, <i>European Scientific Journal</i> 10(18), 247–270.Reference for qualitative analysis of glycosides: Hikino H., Kiso Y., Wagner H., and Fiebig M. (1984). Antihepatotoxic actions of flavonolignans from Silybum marianum fruits, <i>Planta Medica</i>, 50(3), 248-250, https://doi.org/10.1055/s-2007-969690, 2-s2.0-0021191296.Reference for qualitative analysis of oxalates. Noonan, S.C. and Savage, G.P. (1999). Oxalate content of foods and its effect on Humans. <i>Asia Pacific Journal of Clinical Nutrition</i>, 8:64-74The method of statistical analysis used for this study: The results of the experiments were analyzed statistically with the software, SPSS program version 20.0 and Microsoft Office Excel 2007. Statistical significance was tested by one-way analysis of variance (ANOVA).

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<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>3. Results:</p> <p>Mentioning the results of the quantitative analysis of phytochemicals in the table format is recommended.</p> <p>4. Discussion:</p> <p>This section is well written.</p> <p>5. Conclusion:</p> <p>For this section, a compilation of the aims and objectives and findings of this study is recommended.</p>	<table><tr><th>Fruit Sample</th><th>Alkaloids (%)</th><th>Saponins (%)</th><th>Glycosides (mg/100 g)</th><th>Tannins (mg/100 g)</th><th>Oxalates (mg/100 g)</th></tr><tr><td>Cucumber</td><td>2.00</td><td>6.16</td><td>0.51</td><td>0.56</td><td>2.0</td></tr><tr><td>Watermelon</td><td>2.05</td><td>2.50</td><td>0.46</td><td>0.42</td><td>1.0</td></tr></table>	Fruit Sample	Alkaloids (%)	Saponins (%)	Glycosides (mg/100 g)	Tannins (mg/100 g)	Oxalates (mg/100 g)	Cucumber	2.00	6.16	0.51	0.56	2.0	Watermelon	2.05	2.50	0.46	0.42	1.0	
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<p>Conclusion</p> <p>The aims and objectives of this study were to examine the proximate and phytochemical composition of the two fruits (<i>Cucumis sativus</i> and <i>Citrullus lanatus</i>) heavily consumed in most households in Nigeria. The findings from this study have shown that the two fruits are good sources of vital nutrients and phytochemical constituents essential for the survival and wellbeing of many live forms.</p>																					
<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</p>																					
<p>Minor REVISION comments</p> <p>Is the language/English quality of the article suitable for scholarly communications?</p>																					
<p>Optional/General comments</p>																					

PART 2:

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