

Review Form 1.6

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| Journal Name: | Asian Journal of Biochemistry, Genetics and Molecular Biology |
| Manuscript Number: | Ms_AJBGMB_80341 |
| Title of the Manuscript: | Phytochemical and vitamin composition of Cucumis metuliferus juice |
| 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:

(<https://www.journalajbgmb.com/index.php/AJBGMB/editorial-policy>)

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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) |
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| Compulsory REVISION comments | <p>The article describes the phytochemical and vitamin composition of <i>Cucumis metuliferus</i> juice, which is an important contribution to the understanding of its therapeutic and nutritional usefulness. Below, my considerations regarding the article:</p> <p>Introduction Authors should check some statements in the text, for instance: "This bitter form contains cucurbitacins, a highly toxic compound [11] known to have cytotoxic, anti-tumour and anti-inflammatory effects [12]" – It is important to inform that cucurbitacin is present in the leaves, as described in [12]: "In the leaves, a saponin is contained which, foam when mixed with water: cucurbitacin B, a toxic substance of a triterpenic nature known to exhibit cytotoxic, anti-tumour and anti-inflammatory activities."</p> <p>I strongly suggest that authors remove the following sentence: "This sweet form has been used in treatment of HIV /AIDS patients [6]". This information relates to a personal communication from year 2006, as stated in the cited reference: "The fruits of the non-bitter form have been claimed to cure HIV/AIDS positive patients in and around Jos of Plateau State, Nigeria (personal communication, 2006)."</p> <p>Materials and Methods Sample preparation – authors should detail the juice preparation: how many fruits were used; how many grams of pulp; how many milliliters of juice did it yield?</p> <p>Results Table 2: How this table compare to the Recommended Dietary Allowance (RDA) for each vitamin? I suggest adding 2 columns to this table: one for RDA and other for % Daily Value.</p> <p>Discussion Although the <i>Cucumis metuliferus</i> juice contains high amounts of vitamins, it is also rich in several antinutrients and in potentially harmful substances, such as the cardiac glycosides. What are the risks and benefits of consuming this juice? What is the recommended daily recommended amount? What are the consumption limits? Are there restrictions on use?</p> <p>Conclusion The authors suggest the use of <i>Cucumis metuliferus</i> juice as nutraceuticals since it contains important secondary metabolites which are of great health benefits. Here, I pose the same questions placed in discussion.</p> | |
| Minor REVISION comments | No minor comments | |
| Optional/General comments | The article provides important information about the nutritional composition of <i>Cucumis metuliferus</i> juice. However, several issues need to be evaluated to ensure consumer dietary safety. | |

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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> |
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| 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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