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| Journal Name: | [**Asian Journal of Applied Chemistry Research**](https://journalajacr.com/index.php/AJACR) |
| Manuscript Number: | **Ms\_AJACR\_131857** |
| Title of the Manuscript: | **The Bioactive Compounds in Pure & Ternary Blends of Cocoyam, Soya bean & Bambara groundnut Flour Identified Using Gas Chromatography-Mass Spectrometry (GC-MS) Technique.** |
| Type of the Article | **Original Research Article** |

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| PART 1: Comments | | |
|  | Reviewer’s comment **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | 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. A minimum of 3-4 sentences may be required for this part.** | This paper reveals the potential for a Cocoyam-Soya bean-Bambara groundnut flour blend to possess bioactive compounds that can help manage chronic diseases. And through the results, showing the concentrations and shapes of these various compounds differing between blends of standard ratios, it is furthering understanding of how nutrient interventions can affect health outcomes. Moreover, the ethical approval attained for the study provides reassurance around responsibility in research practices, implying a credibility in the scientific society. In general, our work might lay the groundwork for more research on the health and therapeutic properties of such food ingredients from plant origins. |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | Yes |  |
| 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. | Yes |  |
| Is the manuscript scientifically, correct? Please write here. | Yes |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | No, The references included are not completely adequate or up to date. Although the authors have mentioned a few pertinent sources, it is clear that some of the citations are noticed that some references are old (e.g., [Chen HM, Muramoto K, Yamauchi F, Nokihara K.  Antioxidant activity of designed peptides based on the antioxidant peptide isolated from digests of a soybean protein. J Agric Food Chem., 1996., 44: 2619–23.  ]). |  |
| Is the language/English quality of the article suitable for scholarly communications? | Yes |  |
| Optional/General comments | Remove the unwanted link (https://www.omicsonline). |  |

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| **PART 2:** | | |
|  | Reviewer’s comment | Author’s comment *(if agreed with the 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?** |  |  |

**Reviewer details:**

**Pravin Vijay Borse, North Maharashtra University, India**