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REVIEWER'S REPORT

Manuscript No.: IJAR-50692

Date: 17/2/2025

Title:

EFFECT OF STEAMING ON THE PHYTOCHEMICAL COMPOSITION AND NUTRITIONAL VALUE OF SENNA OCCIDENTALLIS (COFFEE SENNA).

Recommendation:

Accept as it is

Accept after minor revision

Accept after major revision

Do not accept (*Reasons below*)

Rating	Excel.	Good	Fair	Poor
Originality		Good		
Techn. Quality		Good		
Clarity	Excellent			
Significance		Good		

Reviewer Name: Dr. Sumathi

Date: 17/2/2025

Reviewer's Comment for Publication.

(To be published with the manuscript in the journal)

The reviewer is requested to provide a brief comment (3-4 lines) highlighting the significance, strengths, or key insights of the manuscript. This comment will be Displayed in the journal publication alongside with the reviewers name.

Steaming, whether facial or through inhalation, offers potential benefits like loosening mucus, improving circulation, and easing congestion, but it is important to be aware of potential risks, especially with burns from hot steam.

Detailed Reviewer's Report

- 1. Phytochemical composition refers to the variety of naturally occurring, bioactive compounds present in plants, including but not limited to polyphenols, alkaloids, carotenoids and terpenoids, each with potential health benefits.**

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- 2. Proximate composition refers to the analysis and quantification of the major components of a substance, such as food or feed, including moisture, ash, protein, fat, and carbohydrates, to assess its nutritional value.**
- 3. Senna occidentalis commonly known as coffee senna or coffeeweed, is a pantropical weed with seeds that have been used as a coffee substitute, and the species name occidentalis means western.**
- 4. Coffee senna is a good source of minerals like iron, calcium, potassium, and magnesium as well as vitamins and amino acids and is used as a food source and in traditional medicine.**
- 5. Steaming generally preserves phytochemicals better than other cooking methods, especially for water soluble compounds by minimizing leaching and thermal degradation, though the specific effects vary depending on the phytochemical.**
- 6. References should be in alphabetical order.**
- 7. Results with tables and graphs are good.**
- 8. Should be included with significant points of flow charts in review parts.**
- 9. Summary parts must be needed.**
- 10. This research is one of the plant biotechnology with health benefit research. Can be continued with molecular level.**
- 11. After minor corrections can be published in your journal.**