

REVIEWER'S REPORT

Manuscript No.: IJAR-59365

Title: Effect of Fermentation Time on the Amino Acid Profile and Sensory Characteristics of Four Cookies Formulations Made from Souchet (*Cyperus esculentus* L.).

Recommendation:

Accept as it is ☐☐☐☐..

Accept after minor revision ☒☐☐☐

Accept after major revision ☐☐☐☐

Do not accept (*Reasons below*) ☐☐☐

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

Reviewer ID: JP085

Reviewer's Comment for Publication.

The study evaluates cookies prepared from tiger nut (souchet) flour fermented for 24, 48 and 72 hours, compared with unfermented flour. Amino acid content was analyzed by HPLC and sensory evaluation was performed with 20 tasters. The 48-hour fermented cookies showed the highest amino acid levels, while the unfermented cookies received the highest overall sensory score.

Strength:

1. The topic is interesting and relevant to food nutrition.
2. The study compares different fermentation times.
3. Amino acids were analyzed using HPLC.
4. Sensory evaluation was performed using a 9-point scale.
5. Statistical analysis using ANOVA and Tukey's test was included.
6. The results are presented in tables with mean and standard deviation values.

Weakness:

1. There are many inconsistencies in the names of the plant and flour throughout the article.
2. The sample size for sensory evaluation is small, with only 20 tasters.
3. The fermentation method is not described in enough detail, such as the temperature and fermentation conditions.
4. Microbial analysis during fermentation is not reported.
5. The study does not provide enough information about food safety after fermentation.
6. Some statements about health benefits, especially for diabetes, are stronger than the results support.

Overall assessment:

The article is interesting and has useful nutritional findings, especially regarding the effect of fermentation on amino acid content. However, several methodological details, terminology

International Journal of Advanced Research

Publisher's Name: Jana Publication and Research LLP

www.journalijar.com

REVIEWER'S REPORT

inconsistencies, health-related claims, and language errors need correction. The conclusion should also be modified because the study does not directly prove benefits for diabetic patients.

Recommendation: Manuscript accepted for publication after minor revision.