

## Accepted Manuscript



Title: Development of a new equation in fuzzy logic analysis for ascertaining appropriate dose of gamma irradiation of virgin coconut oil

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PII: S2215-0161(18)30023-2

DOI: <https://doi.org/10.1016/j.mex.2018.01.013>

Reference: MEX 259

To appear in:

Received date: 24-11-2017

Accepted date: 29-1-2018

Please cite this article as: Bose, Anupama, Bhattacharjee, Paramita, Development of a new equation in fuzzy logic analysis for ascertaining appropriate dose of gamma irradiation of virgin coconut oil. *MethodsX* <https://doi.org/10.1016/j.mex.2018.01.013>

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# Development of a new equation in fuzzy logic analysis for ascertaining appropriate dose of gamma irradiation of virgin coconut oil

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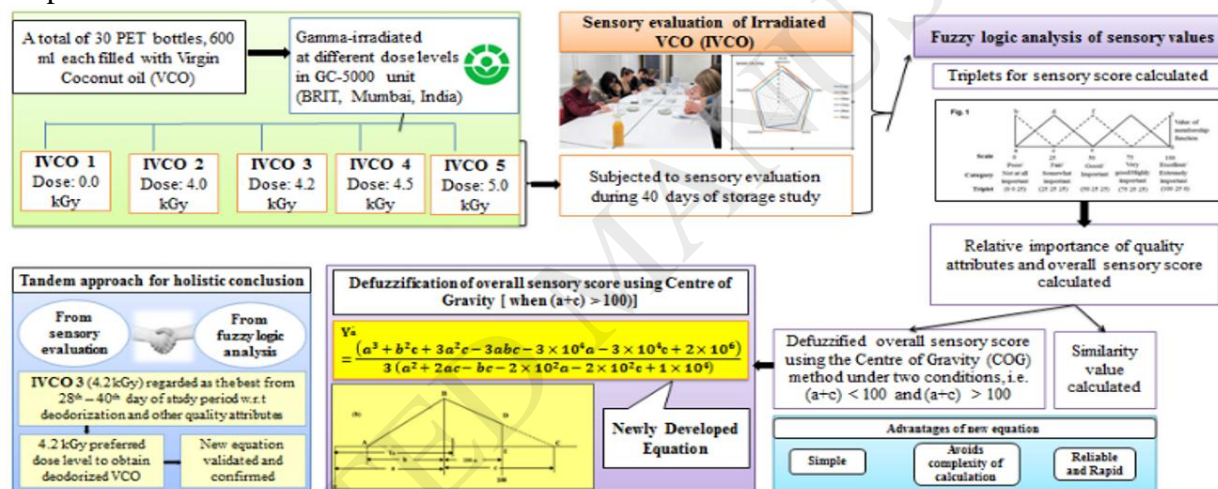
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## Graphical abstract



## Highlights

- Sensory evaluation of deodorized coconut oil was conducted by panelists.
- Fuzzy analysis was employed on the sensory scores.
- The sum of the first and third coordinates of triplet of overall sensory score was  $> 100$ .
- New equation to evaluate defuzzified scores was developed for the above condition.
- The new equation was validated by similarity values and electronic nose signal responses.

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