

Review of: "Uncovering Insights Into the Bio-Efficiency of Zingiber Officinale Roscoe: Understanding Components That Contribute Significantly to Ginger's Anti-inflammatory and Antioxidant Potential in Relationship With Modern Drying Methods"

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Potential competing interests: No potential competing interests to declare.

The paper entitled Uncovering Insights Into the Bio-Efficiency of Zingiber Officinale Roscoe: Understanding Components That Contribute Significantly to Ginger's Anti-inflammatory and Antioxidant Potential in Relationship With Modern Drying Methods is an interesting work that addresses an important aspect of the process of developing the most effective techniques for obtaining unaltered, functional bioactive compounds from plants.

The paper as a whole is well structured; the introduction and discussion are comprehensive and detailed. There are minor revisions to be made in the introduction and major revisions in the materials and methods and results.

Below are my point-by-point observations:

Introduction and Discussion

Please italicize these sentences:

- Zingiber officinale Roscoe
- in vitro

Materials and Methods

Please remove the parentheses from these sentences:

- TPC was presented as mg GAE/100 g).

Please correct ml to mL in these sentences:

- 3.0 ml of DPPH methanolic solution (0.1 mM) was added to 0.5 ml of extract

The statistical analysis of the data obtained is completely missing in the materials and methods and in the first part of the results; can you include it?

Please check point 2.1.5, Determination of antioxidant activity:

- The ABTS assay is present in the results but not in the materials and methods.
- Inhibition of albumin denaturation (step 2.1.5.2) is an anti-inflammatory assay and not an antioxidant assay. Please correct.

How many samples have you processed? How many samples were analyzed for the screening? It does not show how many replicates have been made.

Results

3.3 - Have you used a standard such as Trolox or Ascorbic Acid to evaluate antioxidant activity with DPPH? Can you insert the TEAC equivalent for these data? Please enter the standard deviation with your results in the text.

Please check, correct, and standardize the number of digits after the decimal point in the reported results.