

# Review of: "Evaluation of Chemical Content and Phytochemical Composition of Yemeni Almond Cultivars"

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**Potential competing interests:** No potential competing interests to declare.

The described work is an interesting one; however, the quality of the presentation of the work is not up to the mark, as authors need to put attention on a more clear and scientific presentation of their work. Some comments given below could be redressed to improve the manuscript.

Carefully check the first sentence of the abstract: is the almond plant nutritional or its fruit?

Instead of using "seeds," it would be better to use the word "almond."

Instead of using references older than the last 5 years, authors must prefer to use the latest references.

There is no scarcity of studies on almonds.

There are so many grammatical and syntax errors in the manuscript.

Protocols for determination of mineral contents are not detailed; authors could read and take guidelines from the references given below:

Hussain, A., Kausar, T., Din, A., Murtaza, M. A., Jamil, M. A., Noreen, S., ... & Ramzan, M. A. (2021). Determination of total phenolic, flavonoid, carotenoid, and mineral contents in peel, flesh, and seeds of pumpkin (*Cucurbita maxima*). *Journal of Food Processing and Preservation*, 45(6), e15542.

Hussain, A., Kausar, T., Siddique, T., Kabir, K., An, Q. U., Rukhsar, F., ... & Mahdi, A. A. (2024). Physiological and biochemical variations of naturally ripened mango (*Mangifera Indica* L.) with synthetic calcium carbide and ethylene. *Scientific Reports*, 14(1), 2121.

For determination of TPC, authors have mentioned four references; either the protocols were not clear from one citation.

Table 2 is missing proper statistical analysis as the values are not equipped with alphabetical letters showing level of significance.

Results of mineral analysis given in table 3 are not the means along with standard deviations? Same is the concern for table 4 also.

The word "polyphenol" is used generally for both phenolics and flavonoids, so authors could change "total polyphenols" to

"total phenolics" as the latter heading is "total flavonoids."

Conclusions must be supported by the experimental results, while the authors have stated in the conclusion that "the quality of the fat present in almonds is of a beneficial type that lowers cholesterol in the blood and preserves the integrity of the heart and blood vessels from sclerosis." Did the authors perform an in vivo or efficacy study to prove this? If not, then such sentences must be omitted from the conclusion.

Reference style in the list is also not uniform.