

Review of: "Developing A Novel Solvent System to Isolate Plant Pigments of Different Polarities Using Thin Layer Chromatography"

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Potential competing interests: No potential competing interests to declare.

General Comment

the whole work is very unique, simple and comprehensively explained. it is also well organized and arranged.

Introduction

introduction is very informative and well explained in respect to the topic but a section "**Sometimes these processes involve some harmful or hazardous chemicals as well, such as acetic acid, halogenated solvents, etc [11][12].**" in which acetic acid is also mentioned as harmful and hazardous chemicals, make me some anxious so in my opinion you may change the example or clear that point further.

Results

results are well concluded and explained but in my opinion make some changings like

in fig 3 graph C is not clearly differ the color pattern so redraw it with clear illustration.

further clearly mentioned all the solvents used and their fractions. do not use the sentence like different other solvents for example "**As the next step, we tried different other solvents, first in pure form and then as solvent mixtures, gradually changing the composition (constituents and their relative amounts).**"

Discussion

the discussion section should be comprehensive and free from repetition but discussion section is very long and repetitive with introduction, methodology and result section so in my opinion it should be comprehensive and short enough to clear the purpose of section effectively and prevent the reader from ambiguity.

Conclusion

conclusion also should be short and comprehensive so make some minor changings and provide some take home messages rather than a narrative abstract of the paper.

other comment

all the paper should be justified.

use similar format for β -carotene and β -carotene.

reference should be in general format.

a related paper may be cited in respect to xanthophyll and other natural pigments

“Naqvi, S. F. H., & Husnain, M. (2020). Betalains: Potential Drugs with Versatile Phytochemistry. *Critical reviews in eukaryotic gene expression*, 30(2), 169-189.”