

# Review of: "Developing a Novel Solvent System to Separate Polar and Nonpolar Leaf Pigments of Copperleaf (*Acalypha wilkesiana*) Using Thin Layer Chromatography"

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Potential competing interests: No potential competing interests to declare.

The article is very well written and it is very interesting. It is simple and easy to read, great to provide students with literature on TLC.

I would suggest just small changes:

1 - "Moreover, these techniques often consume more solvents (sometimes hazardous), corrosive chemicals, and are not very cost-effective. One of the most commonly used solvents is methanol, and some pigments have been found to be unstable in it. Methanol is also known to be toxic in nature. Sometimes these processes involve harmful or hazardous chemicals as well, such as acids, halogenated solvents, etc"

This paragraph is repetitive. You mention hazardous twice. Please rewrite it to make it clearer.

2 - is it possible to improve the clarity of the images? Perhaps taking the picture with a color scale next to it, and then correcting the colors on the computer?

3 - The characterization of the pigments should be made clearer: what did you use to scrape off the pigments, what was the exact procedure? The idea is for this to be reproducible.

4 - Do you know how much of each pigment did you get in the end? This is also important to compare with the more traditional techniques.