

Peer Review

Review of: "Synthesis of Nickel Nanoparticles Using Ionic Liquid-Based Extract from *Amaranthus viridis* and Their Antibacterial Activity"

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Abstract: Concluding and recommending sentences at the end of the abstract are missing.

Introduction: Write this name correctly: *Amaranthus Viridus*. The genus and species names have to be in italics, and the species name has to start with a small letter: *Amaranthus viridus*

Combine the last two paragraphs of the introduction.

2.1 Add "s" to material

Write the chemical formulas correctly, especially the subscripts

Uniformize the writing of units and use abbreviated forms

2.4 Put the names of bacteria in italics

Various amounts of manufactured nanoparticles and bacteria utilized need to be specified.

3.1

After the incubation period, the inhibitory zones of the nanoparticles against each of the three matching bacteria were measured precisely. These results were not seen in 3.1

Figure 1 was not introduced in the text.

3.3. The degree symbol needs to be written correctly.

3.7. It may be inferred that the nanoparticles demonstrated antibacterial properties: The zones of inhibition are not big. Inhibition was not clearly seen. It is insignificant.

Combine 3.1 and 3.7

Conclusion: To me, nickel nanoparticles (Ni NPs) were synthesized, but the synthesized Ni NPs were unable to inhibit the growth of *Aeromonas hydrophilia*, *Escherichia coli*, and *Staphylococcus aureus*.

Big issues:

The experiments have to be carried out in triplicate to get reliable data. This is necessary for a study like this.

Statistical analysis is missing, and statistical methods utilized are not mentioned.

Results are not discussed at all. For each subtitle in the discussion, read related studies and compare them with your results, and then draw a conclusion.

Advice: To repeat the experiments with tri or pentaplicates (from the UV experiment to the antibacterial experiment) in order to get reliable data. Duncan's multiple range test can then be used.

Declarations

Potential competing interests: No potential competing interests to declare.