

Review of: "Synthesis and Antibacterial Screening of Cefradine Schiff Bases and Their Metal Salts"

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Potential competing interests: No potential competing interests to declare.

Qeios

Synthesis and Antibacterial Screening of Cefradine Schiff Bases and Their Metal Salts

This manuscript discusses the synthesis of Schiff base and their biological activity. In my opinion, there are many things to do to improve the quality of manuscript and some data is not complete. This manuscript is not ready in current form and will ask the author to resubmit again. The comments are shown below:

1. Affiliation needs to write the full address.
2. Abstract – need to add
 - a. the spectroscopic analyses using
 - b. the biological assay results.
3. Keywords – Please add "*Staphylococcus aureus*" and "*Escherichia coli*".
4. Introduction
 - a. Not convincing. Need to re-write the proper introduction.
 - b. It is too short and no information regarding anti-bacterial.
 - c. Why choosing *Staphylococcus aureus* and *Escherichia coli*.
5. Experimental
 - a. General – Need to re-write the detail of chemicals and instrument that use in this project. Please refer the other journal regarding this part.
 - b. Instrument – Two 1 instruments? Melting point? Molecular mass (HRMS)?
 - c. In compound data 3-35; there are no basic information e.g. Physical properties, colour, yield, melting point, HRMS or CHN.
 - d. No column chromatography?
 - e. No data for compound 3?
 - f. Please add all IR data in the compound list. Remove the tables 1 and 2.
 - g. Please mention what is R1 and R2 in the scheme 1.

- h. Please mention the ATTC number for *Staphylococcus aureus* and *Escherichia coli*.
- i. Please mention the technique that use to measure anti-bacterial and add citation.
- j. How the author determines that tested samples weak, moderate and high? Please include the citation.
- k. It is single concentration or a range of concentration.

6. Result and discussion

- a. Please add more to discuss the chemistry part. In my opinion, the analysis is not complete.
- b. You can add the SARs analysis.

7. Conclusion – Need to rewrite and not convincing.

8. Please prepare the supporting information and include the spectroscopic spectra.

9. Reference – Please check again the guidelines.