

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.

The scrutiny of the manuscript titled "**Synthesis and Antibacterial Screening of Cefradine Schiff Bases and Their Metal Salts**" reveals noteworthy shortcomings in experimental design and data interpretation.

- The abstract is very simple and not detailed enough.
- The researchers attempted structural elucidation through ^1H NMR and IR analyses, these techniques offer insufficient resolution for unambiguous compound identification, especially concerning the preservation or loss of the β -lactam ring. Moreover, the ^1H NMR data lacked clarity in correlating specific carbons or hydrogens with their corresponding structural positions.
- The reported antibacterial activity contradicts the researchers' premises and may be more plausibly attributed to the destruction of the β -lactam ring during synthesis than to the suggested steric interference. It is incumbent upon the authors to address these concerns comprehensively.