

Review Form 3

Journal Name:	Asian Journal of Chemical Sciences
Manuscript Number:	Ms_AJOCS_124545
Title of the Manuscript:	SYNTHESIS, CHARACTERIZATION, AND ANTIMICROBIAL ACTIVITY OF MIXED ANTIBIOTIC-VITAMIN METAL COMPLEXES INVOLVING METRONIDAZOLE AND VITAMIN B1 (THIAMINE)
Type of the Article	

Review Form 3

PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	Author's Feedback (Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.	This manuscript is addressing the urgent issue of antimicrobial resistance (AMR) by exploring innovative therapeutic strategies through the development of metal complexes. The findings highlight the enhanced efficacy of these complexes against key bacterial and fungal strains, suggesting a promising avenue for future research and potential clinical applications. I appreciate the manuscript's comprehensive approach, utilizing various physicochemical methods to characterize the compounds, which strengthens the validity of the results and their implications for AMR mitigation.	
Is the title of the article suitable? (If not please suggest an alternative title)	The title is suitable because it is reflecting the key components of the study: the synthesis and characterization of the metal complexes, as well as their antimicrobial activity. Including both metronidazole and vitamin B1 in the title provides clarity and context.	
Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.	I am suggesting to add specific quantitative results (e.g., percentage inhibition). Methodology part can also include specific concentrations used for antimicrobial testing. Lastly clinical relevance can be improved. Keywords are also missing.	
Are subsections and structure of the manuscript appropriate?	It is not appropriate; all sections and subsections should be numbered properly. Headings of table and figures are not appropriate.	
Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.	This manuscript demonstrates scientific robustness and technical soundness through its systematic approach to synthesizing and characterizing mixed antibiotic-vitamin metal complexes. The use of established physicochemical methods provides a solid foundation for validating the structural properties of the synthesized complexes. The comprehensive evaluation of antimicrobial activity against a range of bacterial and fungal strains further strengthens the study, clearly indicating enhanced efficacy compared to free ligands. Additionally, the detailed characterization results, including specific spectral shifts that confirm coordination, add credibility to the findings and highlight the potential of these metal complexes in combating antimicrobial resistance.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	References are less, approx. 50 references should be there.	
Minor REVISION comments Is the language/English quality of the article suitable for scholarly communications?	Language/English quality of the article can be improved for better scholarly communications.	
Optional/General comments		

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PART 2:

	Reviewer's comment	Author's comment <i>(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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