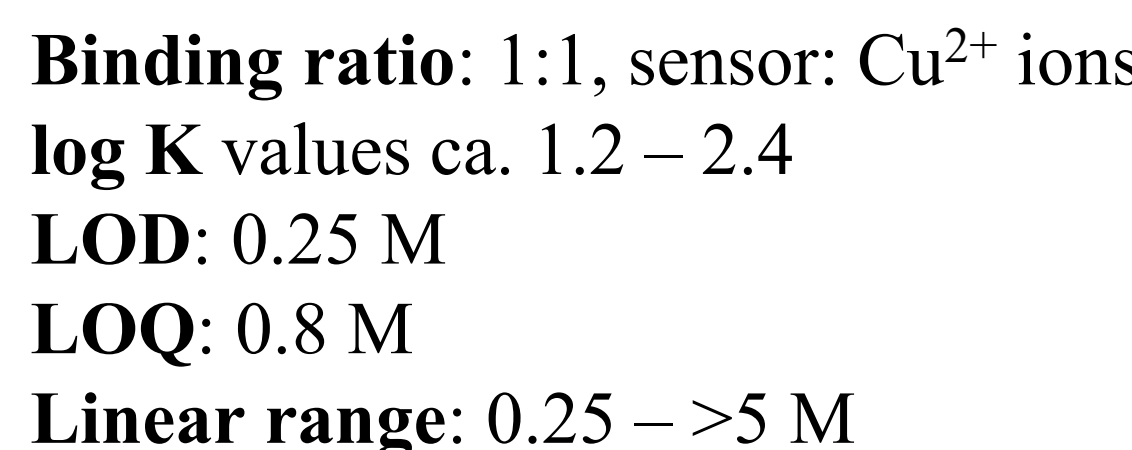


INTRODUCTION

METHODOLOGY

- ✓ X-Ray Crystallography
- ✓ NMR
- ✓ IR: FT-IR ATR
- ✓ UV Light: Fluorescence
- ✓ UV-Vis Spectroscopy:
Metal Titrations
- ✓ Computational Chemistry:
DFT, Gaussian Software
- ✓ Redox studies: Electrochemical

RESULTS and DISCUSSION



CONCLUSION

FUTURE WORK

REFERENCES

- ¹World Health Organization. Guidelines for Drinking-Water Quality, 4th ed.; WHO Press: Geneva, 2022. <https://www.who.int/publications/i/item/9789240045064>.
- ²Barreras-Contreras, L. A.; Moreno-Urbalejo, J.; Chávez-Urías, I. F.; Plascencia-Martínez, D. F.; Hernández-Martínez, D.; Velázquez-Contreras, E. F.; López-Gastélum, K. A.; & Rocha-Alonzo, F. (2025). Schiff Bases and Metal Complexes as Multifunctional Platforms: Bridging Bioinorganic Chemistry, Catalysis, Sensing, and Energy Applications. *Bioinorganic chemistry and applications*, 2025, 8829417. <https://doi.org/10.1155/bca/8829417>