

## Supplementary Materials

# Study of the Antibacterial Capacity of a Biomaterial of Zeolites Saturated with Copper Ions ( $\text{Cu}^{2+}$ ) and Supported with Copper Oxide ( $\text{CuO}$ ) Nanoparticles

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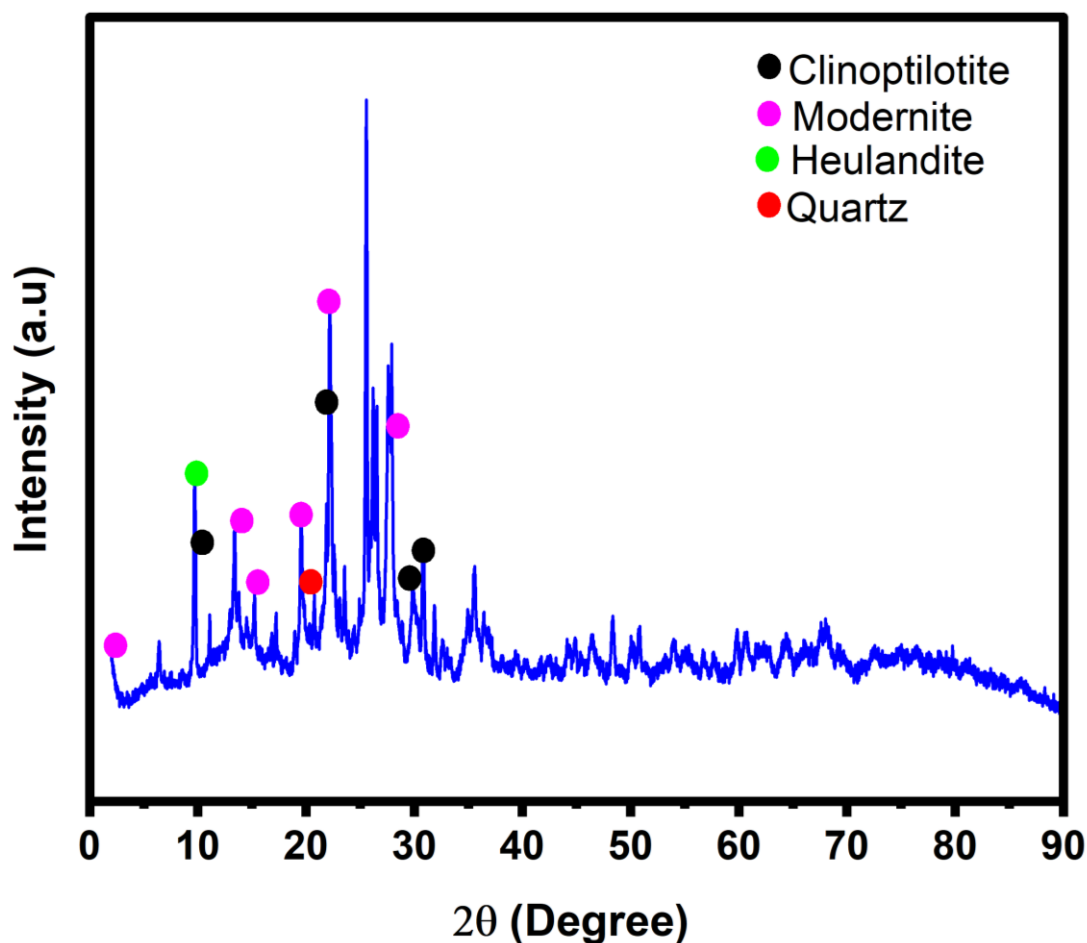
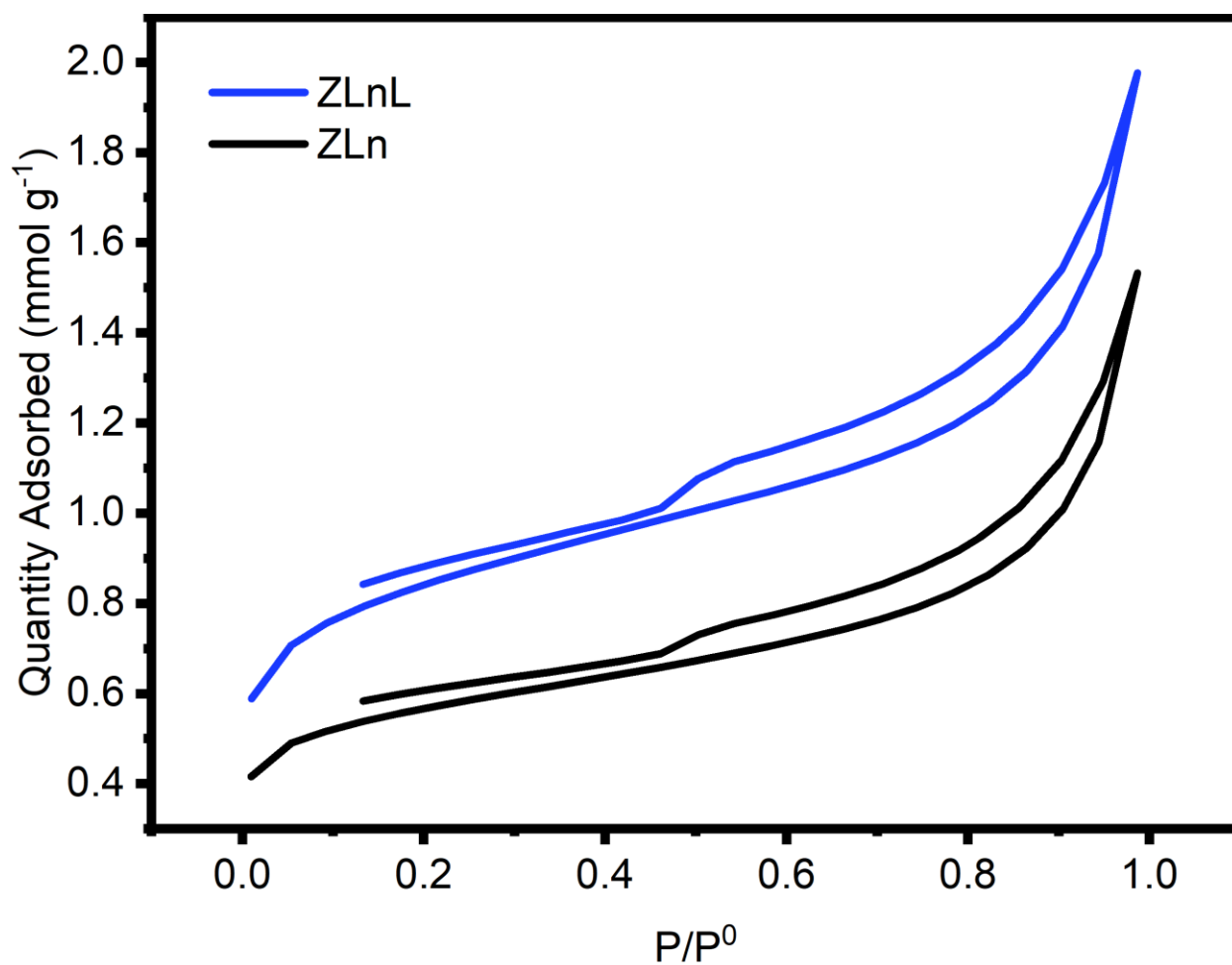
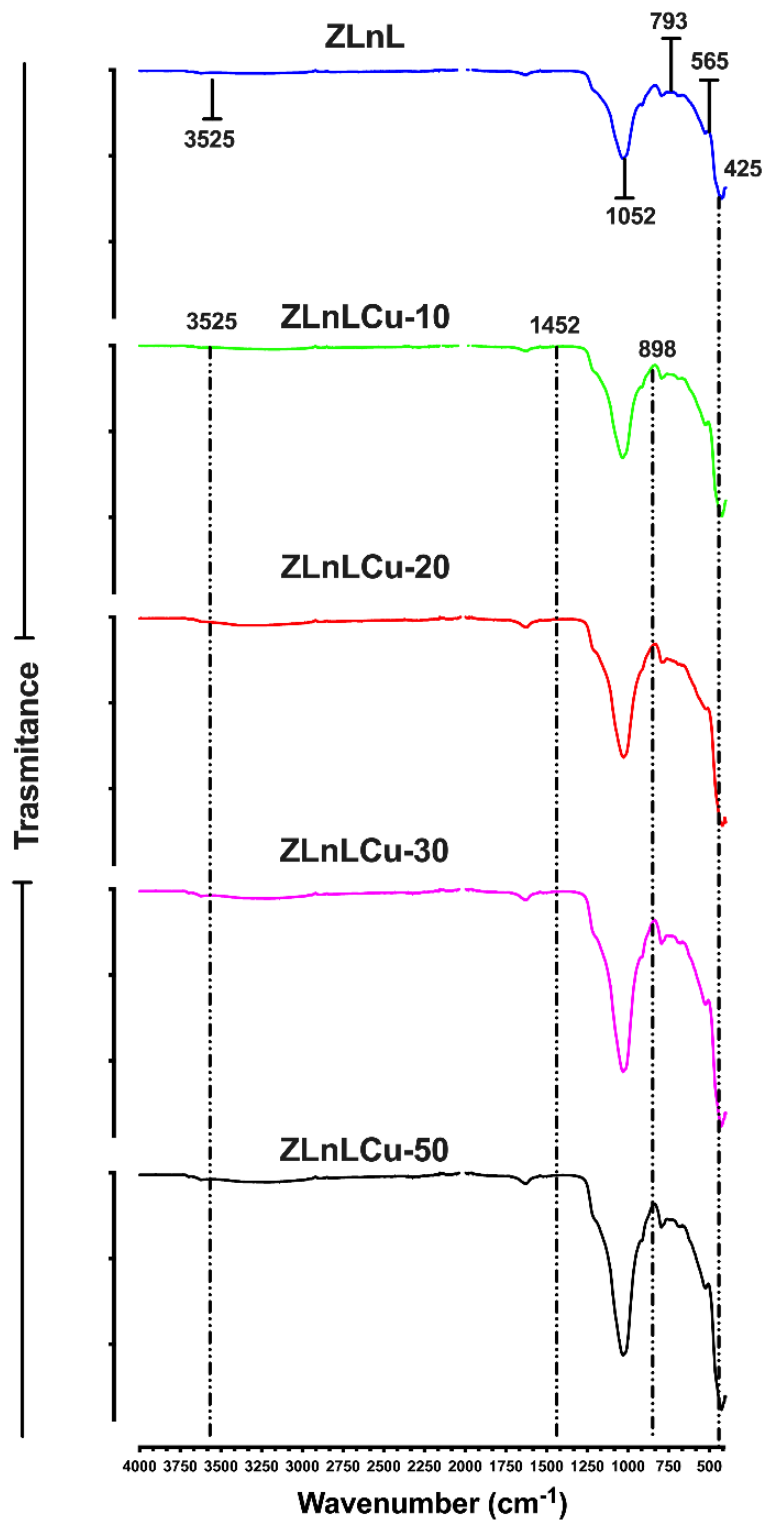


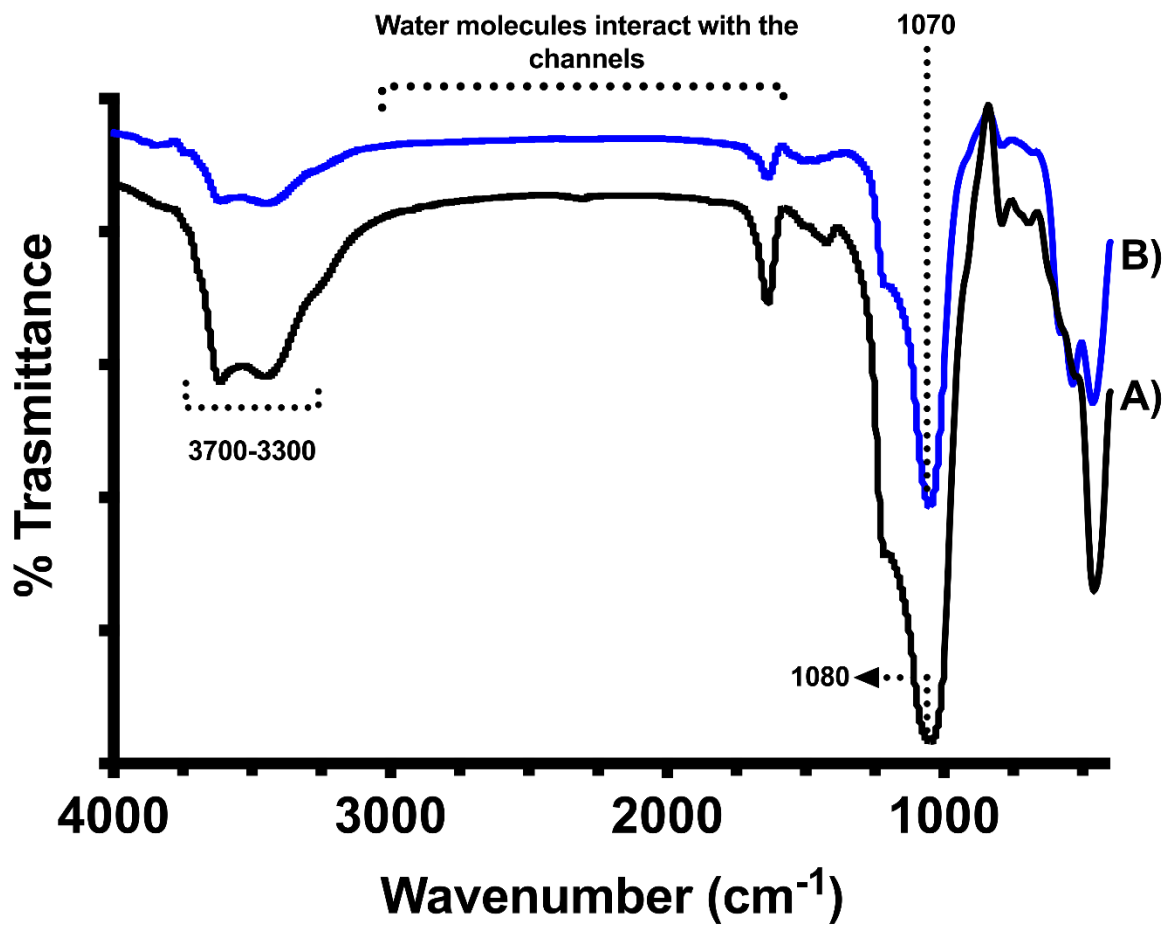
Figure S1: XRD pattern of natural zeolite (ZLn).



**Figure S2:** N<sub>2</sub> adsorption-desorption curve of ZLn and ZLnL.



**Figure S3:** FTIR spectra of ZLnL before and after Cu<sup>2+</sup> ion adsorption.



**Figure S4:** FTIR spectra of (A) ZLnL and (B) ZLnLCuONPS.