



Supplementary Material

Copper Oxide Nanoparticles: Synthesis, Characterization, and Their Biological Effects on Microbial and Cancer Cells

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Supplementary Table 1. Functional groups of CuO nanoparticles revealed by FT-IR analysis.

Peak value (cm ⁻¹)	Bond	Class of Compounds
515.14	C–Br stretch	alkyl halides
596.93	C–Br stretch	alkyl halides
673.11	C–Br stretch	alkyl halides
782.08	N–H wag	1°, 2° amines
887.19	N–H wag	1°, 2° amines
1046.31	C–N stretch	aliphatic amines
1089.7	C–N stretch	aliphatic amines
1161.07	C–N stretch	aliphatic amines
1271	C–H wag (–CH ₂ X)	alkyl halides
1346.22	N–O symmetric stretch	nitro compounds
1383.83	C–H	Alkanes
1422.4	C–C stretch	Aromatics
1660.6	–C=C– stretch	Alkenes
1762.82	C=O stretch	carbonyls (general)
2360.71	C≡N stretch	Nitriles
2737.77	H–C=O: C–H stretch	Aldehydes
3417.63	O–H stretch, H–bonded	alcohols, phenols
3547.81	O–H stretch, H–bonded	alcohols, phenols
3645.18	O–H stretch, free hydroxyl	alcohols, phenols

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