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Synthesis and Antimicrobial Activity of Some Phenothiazine Chalcones and Its Metal Complexes

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Abstract: A series of six transition metal complexes of phenothiazine chalcones were synthesized. All the synthesized ligands and its metal complexes were analysed by elemental and spectral analysis Viz IR, ¹H-NMR, TGA-DTA, magnetic moment and molar conductivity. The analytical data confirm the metal to ligand stoichiometry as 1:2. The ¹H-NMR spectra of the complexes shows broad peaks due to complex pattern of splitting. The molar conductivity data confirms the non electrolytic nature of all the complexes. The Co (II), Ni(II), Fe(II), shows octahedral geometry whereas Zn (II) and Cu(II) shows tetrahedral geometry.

Keywords: Phenothiazine Chalcones, Metal Complexes, Spectral analysis.

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