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## Synthesis and Biological Activity of Di- and Tetra-Nuclear Complexes

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Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Synthesis and Biological Activity of Di-Nuclear Phenoxo-Bridged and Tetra-Nuclear Phenox-Azido-Bridged Complexes | The synthesis, spectral characterisation and bacterial activity of the potentially binucleating N2OS2 Schiff-base ligand (HL) and its complexes are reported. The preparation of ligand was achieved from the reaction of 2,6-diformyl-4-methyl phenol and 2-(4-amino-5-mercapto-4H-1,2,4-triazol-3-yl)phenol in a 1:2 mole ratio using ethanol at reflux. The reaction of ligand with some metal ions at reflux in methanol using KOH as a base resulted in the formation of binucleating phenoxo-bridged complexes. Physico-chemical characterisation indicated the formation of six coordinate structures around Cr( ), Mn( ), Co( ), Ni( ) and Cu( ) and tetrahedral and five-coordinate geometry around Fe( ), Cd( ) and Hg( ) and Zn( ) complex, respectively. The reactivity studies of the phenoxo-bridged binucleating complexes toward azido moiety were also investigated, which gave octahedral geometries for the tetranuclear  $\mu$ -1,1-azido-bridged complexes. The ligand and its metal complexes were screened against *E. coli*, *P. aeruginosa*, *B. subtilis* and *S. aureus* that revealed the metal complexes become more potentially resistive to the microbial activities as compared to the free ligand. | Format: Paperback | Language/Sprache: english | 236 pp.



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