

SYNTHESIS, CHARACTERIZATION AND ANTIMICROBIAL ACTIVITY OF SOME METAL COMPLEXES WITH SCHIFF BASE CONTAINING O, N and S AS THE DONOR ATOMS

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ABSTRACT

The aim of the present work is to synthesize some Schiff base complexes of metal ion and to evaluate their antimicrobial activities. Novel Schiff base ligand derived from 2-hydroxybenzophenone with S-benzylthiocarbamate and its metal complexes with Ni (II), Cu (II), Zn (II) and Cd (II) have been synthesized and evaluated for their antibacterial activities by disc diffusion method and antifungal activities by PDA medium. The complexes have been characterized by conductance, magnetic, IR and electronic spectroscopic techniques.

KEYWORDS: Complex, Ligand, S-Benzylthiocarbamate, Schiff Base