

Abstract:

Research is focused at describing synthesis, characterization and biological activities of Schiff base derivatives. Owing to their great contributions in antifungal and antibacterial activities, Schiff base complexes have gained significant attention in medical field. Primary amines have been exploited to synthesize Schiff base that act as ligand for Schiff bases metal complexes. Zinc (Zn), Copper (Cu), Cobalt (Co) and Nickel (Ni) metal salts were allowed to react, under certain condition, with Schiff base ligand. Ligand was synthesized by reaction of Cyanoacetamide and salicylaldehyde. Product prepared was examined through Infra-red spectroscopy (IR), UV-visible spectroscopy and Photoluminescence (PL) whereas, anti-microbial activity was also checked against different bacterial strains (*MZ2*, *N4*).