**ABSTRACT**

Synthesis of tetradentateSchif base (SB) complexes of Cu(II), Co(II), and Ni(II) was done by the condensation of 2-aminophenol/o-phenylenediamine and terepthaldehyde in an alcohol medium, and the complexes were characterized by utilizing FTIR, LCMS, and UV–visible analysis. From the analytical, electronic, and magnetic data, octahedral geometry has been proposed for all the complexes. The antibacterial studies were studied for the SB ligands and their complexes against Bacillus subtilis 2393, Proteus vulgaris 426, Klebsiella sp., S. aureus 3160, and Escherichia coli 4604. Their antifungal activities were studied against Aspergilusfavus, Aspergillusniger, Cryptococcus neoformans, and Penicilliumchrysogenum. The outcomes revealed that the transition metal complexes revealed good antibacterial and antifungal activities.