

Abstract

The 4-fluoro-N-(2-pyridylmethylene)-aniline Schiff base ligand (L) and its complex has been synthesized and successfully characterized by ^1H NMR, elemental analysis, UV/VIS spectroscopy. Electrochemical properties were determined by cyclic voltammetry. Antimicrobial activities of the ligand and complex were tested against Gram-negative *Escherichia coli* and Gram-positive bacteria *Staphylococcus aureus*, using disk diffusion method and both were found to exhibit good biological activity.