



## **Synthesis, Characterization and Biological Activities of Heterocyclic Schiff Base and Its Metal Complexes**

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### **ABSTRACT**

*Metal complexes of some transition metal ions viz Co(II), Ni(II), Cu(II), Zn(II), Cd(II) and Hg(II) have been synthesized from a Schiff base (L) formed by the condensation of 3-amino-5-bromobenzofuran-2-carboxamide and 2-hydroxy-1-naphthaldehyde. Synthesized compounds have been studied by various spectroscopic techniques and evaluated for their DNA cleavage and antimicrobial activities. Antibacterial activities of ligand and its metal complexes have shown that the metal complexes are more active than their corresponding ligand.*

**Keywords:** Schiff base, Metal Complexes, Spectral studies, Biological activity studies.

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