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Synthesis and Spectroscopic Studies on the new Schiff Base Derived from the 1:1 condensation of Isatin with Amines and its Evaluating biological activity

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Abstract : A series of Schiff base derivatives have been synthesized by condensed of isatin and amines (amino pyridine, 5-methyl amino pyridine, 4-methyl amino quinolin, aminobenzotiazol, 4-aminoantipyrine, fluoren-9(9aH)-ylidene)hydrazine) in ethanol in the presence of acetic acid as catalyst to yield the Schiff base derivatives (I-V), The structure of synthesized compounds has been established on the basis of their spectral (FT-IR, Mass, ^1H , ^{13}C -NMR, elemental analysis) data. The purity of the compounds was confirmed by TLC. All these compounds were evaluated for their In vitro activity against several microbes (*Staphylococcus aureus*, *Escherichia coli*, *Bacillus subtilis* and *Klebsiella pneumonia*).

Keywords: Schiff bases, isatin, amines, Spectral study, antibacterial activities.

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