



SYNTHESIS, SPECTROSCOPIC CHARACTERIZATION AND ANTIBACTERIAL SCREENING OF MEDICINALLY IMPORTANT MANNICH BASES DERIVED FROM 5H- DIBENZO [B, F] AZEPINE-5-CORBOXAMIDE

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Abstract

Biologically active mannich bases with heteroaromatic ring system of 5H-dibenzo [b, f]azepine-5-Corboxamide have been synthesized via mannich reaction. The aminomethylation of 5H-dibenzo [b,f]azepine-5-Corboxamide with various biologically potent sulphonamides and secondary amines was carried out. The synthesized mannich bases were characterized by elemental analysis and spectral studies –UV, IR and ¹HNMR. The compounds were screened for their antibacterial activity against pathogenic bacteria i.e. E.coli and B.subtilis at varying concentrations. The antibacterial activity of derived mannich bases was compare with parent sulphonamides where the results shows some of synthesized compounds shows prolongs activity against these pathogens.

Key words: 5H-dibenzo [b,f]azepine-5-Corboxamide; Sulphonamides; Mannich reaction; Mannich bases; Antibacterial activity; E.coli; B.subtilis
