

Synthesis and pharmacological evaluation of some benzylidene-4-nitroanilines

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Abstract. A number of nine benzylidene-4-nitroanilines were synthesized by condensation method. The formation of the substituted (*E*)-*N*-benzylidene-4-nitrobenzenamines has been confirmed from their physical and Ultra-Violet, Infra-Red, NMR spectral data. The evaluation of antimicrobial screening of substituted (*E*)-*N*-benzylidene-4-nitrobenzenamines was conducted by using standard Bauer-Kirby method. Three gram-positive microbes namely *Bacillus subtilis*, *Micrococcus luteus* and *Staphylococcus aureus*, and two gram-negative microbes, *Escherichia coli* and *Pseudomonas aeruginosa*, were used for the antibacterial evaluation. The antifungal activities against *Aspergillus niger* and *Penicilium scup* fungal species were also performed. A good antibacterial effect has been possessed by some of the substituted (*E*)-*N*-benzylidene-4-nitrobenzenamines on the microorganisms utilized in the present study

Keywords: benzylidene-4-nitroanilines; IR and NMR spectra; antimicrobial activities.

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