

Novel 4- Thiazolidinones and Its Styryl Derivatives : Design, Synthesis and Characterization of Biologically Potent Antibacterial Agents

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ABSTRACT:

Two series of some new 4-thiazolidinones and styryl containing derivatives were designed and synthesized, screened for their antimicrobial activities. The structures of the compounds were elucidated with the aid of IR, ¹H NMR spectroscopy, and elemental analysis. The antimicrobial activity of the compounds were tested against four bacteria (Staphylococcus aureus MTCC 443 and Staphylococcus pyogenus MTCC 443) and two Gram-negative (Escherichia coli MTCC 442 and Pseudomonas aeruginosa MTCC 443).

Keywords: Thiazolidinone; styryl; antibacterial activity.