Synthesis and Antimicrobial Evaluation of Some New 2-(6-Oxo-5,6-dihydro[1,3]thiazolo[3,2-b]-2-aryloxymethyl-1,2,4-triazol-5-yl)-N-arylacetamides

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A series of 2-(6-oxo-5,6-dihydro[1,3]thiazolo[3,2-b]-2-aryloxymethyl-1,2,4-triazol-5-yl)-N-arylacetamides \textit{6} were synthesized in good yield by condensing 5-aryloxymethyl-4\textit{H}-1,2,4-triazole-3-thiol \textit{5} with various substituted \textit{N}-phenyl-maleimides in acetic acid media. The newly synthesized compounds were characterized by spectral data and tested for their \textit{in vitro} antibacterial and antifungal activity against a variety of microorganisms.

\textit{Key words:} 1,2,4-Triazole-3-thiol, \textit{N}-Aryl-maleimides, Antibacterial, Antifungal