



Green Synthesis of Novel Substituted 4, 4-Biphenothiazine Derivatives

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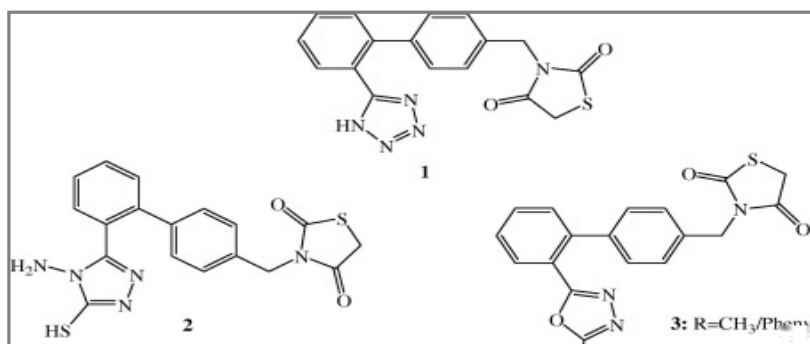
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ABSTRACT

In this paper, common heterocyclic system contains nitrogen or oxygen or both plays an important role in the evolution of life. Comparison of conventional and microwave assisted synthesis of 4, 4-Biphenyl and 4, 4-Biphenothiazines is an intermediate use in the manufacture of thermoplastics such as liquid crystalline polymers, polyesters, polycarbonates and polysulfones. A new class of 4, 4-Biphenyl and 4, 4-Biphenothiazines derivatives condensed with different aldehydes under micro synthesized compounds has been characterized by IR, 1H, NMR and mass spectral data. The compounds were then evaluated for antimicrobial activities.

Graphical Abstract



Tetrazole derivatives.

Keywords: Biphenyl, Phenothiazine, Substituted aldehydes, Biological activities.