

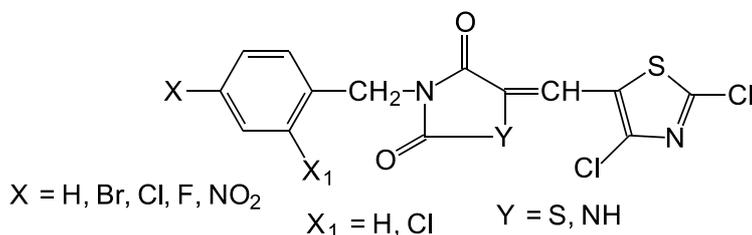
## SYNTHESIS AND ANTIMICROBIAL ACTIVITY OF SOME NEW THIAZOLYL THIAZOLIDINEDIONE DERIVATIVES

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The presence of a thiazolidine ring in penicillins and related derivatives was first recognition of its occurrence in nature [1]. Thiazolidine derivatives are reported to show variety of biological activities. Depending on the substituents, this heterocycle can induce different pharmacological properties such as antibacterial, antifungal [2], antidiabetic [3], cardiotoxic [4], anticonvulsant [5], cyclooxygenase and lipoxygenase inhibitory [6]. Thiazoles have been reported to possess antibacterial [7], antifungal [8] activities, too. It has been established that introduction of arylidene moieties at different positions of the thiazolidine ring enhanced antimicrobial activity [2, 9]. In view of the antimicrobial property of the above pharmacophores, some novel thiazolyl thiazolidinedione derivatives have been synthesized as seen in below Formula.

Chemical structure of the compounds have been elucidated by their IR, <sup>1</sup>H NMR, Mass and elementary analysis data. The synthesized compounds were tested for their antifungal and antibacterial activities in vitro. All the compounds was found active against used microorganisms.



Formula

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