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Synthesis and Characterization of Antimicrobial Activity of Novel Thiazolidinone Derivatives of 1,2-Benzisoxazole

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Abstract : A series of Thiazolidinone derivatives of 1,2-Benzisoxazole were synthesized. 4-hydroxy-2H-chromen-2-one is condensed with aromatic aldehyde to yield Schiff's base which on cyclization with Mercapto acetic acid yields Thiazolidinone derivatives of Benzisoxazole . The structure of synthesized compounds has been established on the basis of their IR, ¹HNMR and Elemental analysis. The purity of the compounds was confirmed by TLC. The synthesized compounds were screened for *In vitro* antibacterial and antimicrobial activity by turbidimetric methods. Compounds 5b, 5d, 5e, 5i showed better antibacterial activity with the reference standard Ciprofloxacin and Compounds 5b, 5d, 5e, 5i showed good antimicrobial activity with the reference standard ketoconazole.

Key Words : Coumarin, Schiff's base, Benzisoxazole.

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