



Synthesis, Characterization and Antimicrobial activity Studies of Bis-sulfonamide Derivatives

Sunil Kumar A and Jyothi Kudva*

St Joseph Engineering College, Vamanjoor, Mangaluru-575028, **INDIA**

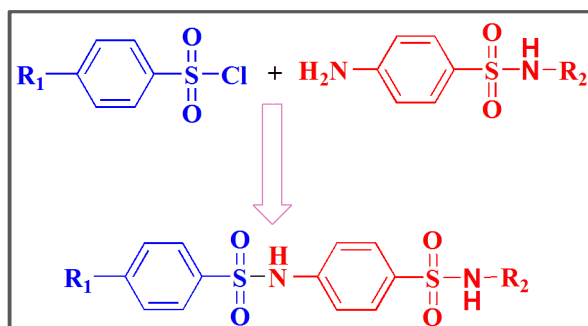
Email: jyothikudva@gmail.com

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ABSTRACT

A series of thiazole, oxazole and isoxazole derivatives containing sulfonamide moieties were synthesized and the structure of the new derivatives was confirmed using FT-IR, ¹H NMR, LCMS and elemental analysis. The antimicrobial activities of these compounds were evaluated against two Gram-positive, two Gram-negative and two fungal strains by disc diffusion method. Thiazole derivative containing 4-methoxy phenyl group has observed as a potent antimicrobial agent.

Graphical Abstract



Keywords: Chlorosulfonic acid, Bis-sulfonamide, Antibacterial, Antifungal, Disc diffusion.