



Synthesis and Antibacterial Activity of Benzothiazole Analogues

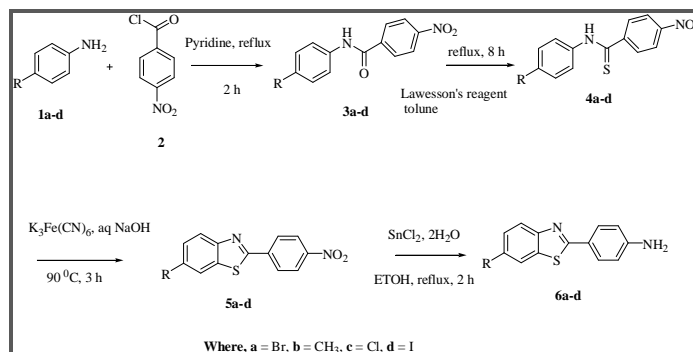
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ABSTRACT

A series of novel benzothiazole fused derivatives were designed, synthesized and screened for their antibacterial activity against *Escherichia coli* (MTCC 40) (Gram-negative) and *Staphylococcus aureus* (MTCC 96) (Gram-positive) bacteria. Among them, derivative **8c** showed highest antibacterial activity against gram +ve and gram -ve bacteria.

Graphical Abstract



Synthesis of 4-(6-substituted benzo[d]thiazol-2-yl) benzenamines (6a-d)

Keywords: Benzothiazole derivatives, Antibacterial activities and Chloramphenicol.