



**Synthesis, Characterization and Antibacterial Activity of  
Novel Schiff Bases Bearing Thiazole Ring**

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**ABSTRACT**

*The synthesis of thiazole-iminine derivatives **8a-8j** was prepared in five steps from commercially available ethylacetoacetate as starting material. Condensation of thiourea and ethylacetoacetate in presence of N-bromsuccinimide gave ethyl 2-amino-4-methylthiazole-5-carboxylate **3**. Sequential reaction of diazotization, Suzuki reaction and nitro reduction resulted in the formation of the key amine intermediate ethyl 2-(4-aminophenyl)-4-methylthiazole-5-carboxylate **6**. Condensation of amine **6** with aromatic and hetero aromatic aldehydes **7a-7j** gave rise to thiazole-imine derivatives **8a-8j** in quantitative yields. The structures of the newly synthesized **8a-8j** were established on the basis of the spectroscopic techniques like <sup>1</sup>H NMR, mass and IR data. Compounds **8a-8j** was evaluated for antibacterial screening. Most of the compounds within the series exhibited good to moderate antibacterial activity.*

**Keywords:** Antibacterial activity, Diazotization, Ethylacetoacetate, Suzuki reaction, Synthesis.

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