



Synthesis, Characterization And Antimicrobial Activity of Pharmaceutically Important 1,2-Dihydroquinoline Derivatives

T. Sumana^{1,2}, Pushpa Iyengar^{1*} and C.Sanjeevarayappa^{1,3}

1. Department of Chemistry, East Point Research Academy, Bidarahalli, Bengaluru-560049,
Affiliated Research Centre to Tumkur University, Tumkur, Karnataka, **INDIA**

2. Sree Siddaganga College of Pharmacy, Tumkur, Karnataka, **INDIA**

3. Govt First Grade College, Yelahanka, Bangalore, Karnataka, **INDIA**

Email: pushpaiyengar@rediffmail.com, sumana.9765@gmail.com

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ABSTRACT

In the present work, twelve novel dihydroquinoline derivatives were synthesized by acetylation, cyclisation and substitution reactions. Again a condensation reaction was carried out between primary amine (dihydroquinoline) and substituted aryl, alkyl sulphonyl chlorides, benzyl bromides and carboxylic acids. The structures of the synthesized compounds were characterized on the basis of IR, ¹H NMR, ¹³C NMR and Mass spectral data. All synthesized compounds are screened for their antibacterial and anthelmintic activity. From the results it is concluded that, some of the compounds exhibited potent, rest of compounds exhibited mild to moderate antibacterial and anthelmintic activity.

Keywords: 3-Amino phenol, Acetic anhydride, Ethylacetoacetate, *o*-Phenylenediamine, Dihydro quinoline, Antibacterial activity, Anthelmintic activity.
