

Synthesis, Characterization and Biological Evaluation of Novel Quinazoline Derivatives

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ABSTRACT

In the present study, a series of novel quinazoline derivatives were synthesized by condensation with different aromatic amines via cyclized intermediate 2-phenyl-1, 3-benzoxazin-4-one. The chemical structures were confirmed by means of IR, ¹H NMR, These compounds were screened for anti bacterial (Staphylococcus aureus ATCC-9144, Escherichia coli ATCC-25922, activities by paper disc diffusion technique. The potency of antibiotic content in samples can be determined by chemical, physical or biological means. An assay is made to determine the ability of an antibiotic to kill or inhibit the growth of living microorganism. The inhibition of microbial growth under standardized conditions may be utilized for demonstrating the therapeutic efficacy of drugs. Microorganism employed in biological assay are of various types- bacteria for amino acid, antibiotics, fungi for vitamins, trace elements, antibiotics and fungicidal and fungi static materials. The synthesized compounds were evaluated for anti-bacterial activity. Some of these synthesized compounds shown significant anti-bacterial activity.

Key words: Quinazoline, Aromatic amines, Anti-bacterial activity.

Access this Article Online

Website: <http://www.journalofhospitalpharmacy.in> Quick Response Code:

Received on 08/05/2018
Accepted on 16/05/2018 © HEB All rights reserved

