



SYNTHESIS, CHARACTERIZATION AND ANTIMICROBIAL STUDY OF CHLOROSUBSTITUTED S-TRIAZINES

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ABSTRACT

Some new chlorosubstituted 1,3,5 triazines have been synthesized from cyanuric chloride with aniline in presence of acetone. The compound formed is then condensed with the chalcone in aqueous KOH in ethanolic medium. The structure of newly synthesized chlorosubstituted triazines have been elucidated on the basis of molecular weight determination, elemental analysis and spectral analysis. The purity of compound were tested by TLC. The IR spectra were scanned on FTIR spectrometer in KBr pellets. ^1H NMR spectra were recorded on 400 Hz spectrometer in CDCl_3 as a solvent.

The elemental analysis and spectral analysis were carried out at SAIF, Punjab University. The newly synthesized compounds were screened for their antibacterial activity and growth promoting impact on some *Rabbi Crop* plants viz *Pisum sativum*, *Zea Meys*, *Brassica Jucea*, *Linus Culinaris*

A new series of s-triazine based characters have been synthesized by the temperature controlled reaction. Literature survey also reveals that the s-triazine nucleus containing chalcone and their derivatives have broad spectrum of biological activities. Thus it was thought interesting to use S-triazine nucleus condense with chalcone which on cyclisation in the presence of alkali results in the synthesis of some new chlorosubstituted triazines.

KEYWORDS: Chlorosubstituted triazines, Chalcone, Antibacterial Activity, Spectral Analysis

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