

SYNTHESIS OF 1-FORMAMIDINO-3-SUBSTITUTED FORMAMIDINO THIOCARBAMIDES AND THEIR ANTIBACTERIAL SCREENING

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ABSTRACT

In the present work, a novel series of 1-formamidino-3-substituted formamidino thiocarbamides have been prepared by the interaction of dicyandiamide with thiourea in ether acetone medium. The justification of the structure of these newly synthesized compounds has been established on the basis of chemical characteristics, elemental analysis, IR, NMR and mass spectral analysis. Then synthesized compounds were screened for their antimicrobial activity against *E. coli*, *S. typhi* and *P.aeruginosa*. The synthesized compounds found to be good to moderate antimicrobial activity.

KEYWORDS: Thiocarbamides, Dicyandiamide, Characteristics & Antimicrobial evaluation