

SYNTHESIS, CHARACTERIZATION AND BIOLOGICAL EVALUATION OF SOME IMIDAZOLE BEARING HYDRAZONES AS POSSIBLE ANTIMICROBIAL AND ANTHELMINTIC AGENTS

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Hydrazones have been of considerable scientific interest due to their momentous biological activities. A number of imidazole bearing hydrazone derivatives were synthesized and characterized in the present investigation. Synthetic protocols were undertaken to react benzil with benzaldehyde and ammonium acetate in the presence of sulphanic acid as catalyst to yield suitable imidazoles. Further, in the proceeding steps, reactions of imidazole were carried out to yield ester, then hydrazide and finally the hydrazone derivatives. Spectral methods were used to characterize the synthesized compounds appropriately. The synthesized hydrazones were screened for antibacterial, antifungal, anthelmintic activities. Most of the synthesized compounds showed moderate to good biological activities.



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