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Synthesis, Characterization and Antibacterial Activity of Cobalt Complex of 2-Pyrazoline with Pyridinyl Moiety

Ravi Sethi^{1*} and Mamta Ahuja²

¹Department of Chemistry, PAHER University, Udaipur-313001 (Raj.) India

²Department of Chemistry, Govt. Meera Girls College, Udaipur-313001 (Raj.) India

Abstract: 1-Acetyl-5-(4-nitrophenyl)-3-(2-pyridinyl)-2-pyrazoline was synthesized by the Claisen-Schmidt condensation of 3-(4-nitrophenyl)-1-(2-pyridinyl)-2-propene-1-one in presence of hydrazine hydrate in acetic acid and its cobalt complex have been synthesized and characterized on the basis of elemental analysis, molar conductance, molecular weight determination and spectral data like ¹H NMR, IR. These compounds were screened for their antibacterial activity against gram positive and gram negative bacteria.

Key words: 2-pyrazoline, Cobalt complex, Spectral Analysis, Antibacterial activity.

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