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Synthesis, Characterization and Antimicrobial Activity of Transition Metal Complexes with Diethanolamine and Acetylacetone

Arshad hussain khan¹, Abdul bashar^{2*}, Urvashi singh³, Mohammad maqbool dar³ and Athar adil hashmi³

- 1. Department of Chemistry, SIGHANIA UNIVERSITY, Rajasthan-333515, INDIA
- 2. Department of Chemistry, B.P.Chaliha College, Nagarbera, Assam-781127, INDIA
- 3. Department of Chemistry, JAMIA MILLIA ISLAMIA, New Delhi-110025, INDIA

Email: ahk1246@gmail.com, abdulbashar01@gmail.com

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ABSTRACT

Diethanolamine and acetylacetone are versatile ligands that readily form co-ordination compounds with almost all transition metal ions. Co(II) and Fe(III) metal complexes derived from diethanolamine and acetyl-acetone have been prepared. The newly synthesized compounds have been confirmed on the basis of elemental analysis, melting points, conductivity, IR, UV-VIS spectral methods .The metal complexes have been screened for their antibacterial and antifungal activity in Mueller Hinton Media.

Keywords: synthesis, characterization, antibacterial and antifungal activity.