

عنوان مقاله:

Synthesis, Characterization, and Biological Activity of New Metal Ion Complexes with Schiff Base (Z)-3-(E)-2-Hydroxybenzylidene) Hydrazineylidene) Indolin-2-One

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خلاصه مقاله:

The study involved preparing a new compound by combining between 2-hydroxybenzaldehyde and (Z)-3-hydrazineylideneindolin-2-one resulting in Schiff bases and metal ions: Mn(II), Co(II), Ni(II), Cu(II), and Zn(II) forming stable minerals-based-Schiff complexes. The formation of resulting Schiff bases is detected spectrally using LC-Mss which gave corresponding results with theoretical results, ¹H-NMR proves the founding of N=CH signal, FT-IR indicates the occurrence of imine band and UV-VIs mean is proved the ligand formation. On the other hand, minerals-based-Schiff was characterized using the same spectral means that relied with ligand (Schiff bases). Those means gave satisfactory results and proved the suggested distinguishable geometries. Finally, and according to the antibiotic feature of Schiff bases and its minerals, we have also examined such character against (-Bacteria and +Bacteria) giving an acceptable inhibition efficiencies.

کلمات کلیدی:

Isatin 2, Hydroxy benzaldehyde Biological activity Schiff base complexes

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