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SPECTROSCOPIC STUDIES, BIOLOGICAL ACTIVITY AND CRYSTAL STRUCTURE OF SCHIFF BASE AND ITS NI (II)-COMPLEX

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ABSTRACT

Schiff's bases was fabricated and the composition was illustrated by X-rays demonstrating the formation of the molecule, which indicated that the compound was crystallized in monoclinic C2 / c with a = 16.0116 (5), b = 6.0215 (2)) Å, c = 29.0082 (10) Å, α = 90.10 °, β = 101.956 (2) °, γ = 90.10 °, V = 2759.3 (2) Å3, Z = 8 and Rint = 0.032. Mass spectroscopy, 1HNMR, X-ray, UV-VIS, and infrared. Also, the Ni complex was prepared and its structure was elucidated in the bases for primary analysis, electronic measurements, infrared spectra, and conduction measurements. Also, the biological activity of Schiff's base and its nickel complex is biologically active.

KEYWORDS: *Biological Activities, Schiff Base, Spectroscopic; X-Ray Single Crystal*