**SYNTHESIS, CHARACTERIZATION AND MAGNETIC PROPERTIES OF NICKEL(II) AND COPPER(II) COMPLEXES OF THE SCHIFF BASES DERIVED FROM Δ3-TETRAHYDROBENZALDEHYDE AND 2-METHYL- Δ3-TETRAHYDROBENZALDEHYDE AND GLYCINE**

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Copper(II) and Nickel (II) complexes with the Schiff bases derived from Δ3-tetrahydrobenzaldehyde or 2-methyl-Δ3-tetrahydrobenzaldehyde and glycine were synthesized. These compounds have been characterized by elemental analyses, conductivity measurements and infrared spectroscopy. The Schiff base ligands and their complexes have been further characterized by 1H NMR. The results suggest that the Schiff base acts as a bidentate ligand which bonds to the metal ions through the imino nitrogen and carboxylate oxygen. The potassium salts of the Schiff bases are 1:1 electrolytes, but all the complexes are non-electrolytes.

**Key Words:** Schiff bases, glycine, Ni(II) complexes, Cu(II) complexes, conductivity.

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**Figure1**. Proposed Structure of the Potassium Salts of the Ligands, KL1.H2O and KL2.H2O



**Figure 2.** Proposed structure of the Ni(II) and Cu(II) complexes of the ligands L1 and L2 (n = 2 for M = Cu and n = 6 for M = Ni)

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