OPEN ACCESS Freely available online

Pharmaceutical Analytical Chemistry

Synthesis and Characterization of New Nickel (II) Complex with N/O Donor Type Ligand

Nour El Houda GUERAH

Faculté des Sciences Exactes, Université Larbi Ben M'hidi, Oum el Bouaghi, Algeria

Abstract

During the recent years, Complexes of transition metal have drawn enormous interest around the world by attracting much attention because of their fascinating structures, intriguing coordination architectures and, more importantly, their potential applications in various fields including: catalysis, fluorescence, biological properties...[1]. Due to their robustness and thermal stability, many efforts have been devoted to the synthesis of new complexes using multidentate pyrazine carboxylate ligands due to the pair of electrons on the Nitrogen and oxygen through which they may readily coordinate to metal center to form a ligand-metal linkage [2-3]. To the best of our knowledge, many coordination complexes formed with: 3-aminopyrazine-2-carboxylic acid (Hapca) have been synthetized and characterized [4-5].In this context, we have used Nickel as a second row transition element to have also a new coordination complex [Ni (Hapca)2(H2O)2]n, where it was prepared by conventional protocol under acidic conditions provided by hydrochloric acid. Many studies are underway to initiate its applications.

Biography

Nour El Houda currently works at the Department of Analysis , University of Science and Technology Houari Boumediene. Nour El Houda does research in Applied Mathematics and Analysis.

Citation: Nour El Houda GUERAH, *Synthesis and Characterization of New Nickel (II) Complex with N/O Donor Type Ligand*, Global Conference on Crystallography and Structural Chemistry|Amsterdam, Netherland| July 13-14,2020

P Analytical che 2020
ISSN: 2471 2698

Volume 5 | Issue 4