

Abstract

The current research work emphasizes on the coordination behavior and different properties of coordination compounds of Trans-1,2-diaminocyclohexane-N-tetraacetic acid with Nickel and Neodymium. Crystalline products were obtained by using ligand as well as Co-ligands by applying hydrothermal, reflux and sonication methods. Results of Elemental analysis have been in good agreement with the proposed structures while FT-IR spectroscopy also support the binding of Trans-1,2-diaminocyclohexane-N-tetraacetic acid (ligand) with Nickel and Neodymium. The antimicrobial activity of the complexes was also determined.