



Physicochemical Methods as Applied to Synthesis and Catalytic Studies of Selected Lanthanide Complexes

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ABSTRACT

The combination of some rare metal ions with biologically important kynurenic acid ligand to form coordination compound is an important area of current research. Less explored biologically important, kynurenic acid ligand is allowed to react with solution of some rare metal perchlorates and attempt has been made to synthesize solid kynurenic acid complexes. These kynurenic acid complexes are subjected to U.V-Visible spectroscopy, IR spectroscopy, mass spectra, TGA analysis, elemental analysis etc. These complexes are used to study whether they possess catalytic activity in homogeneous or heterogeneous phase. Antimicrobial activity of these complexes has been evaluated by standard methods and attempts have been made to correlate structural characteristics with properties of these kynurenic acid complexes.

Keywords: Kynurenic acid, catalysis, antimicrobial activity, lanthanide complexes.
