

Synthesis and characterization of mixed ligand complexes of zinc(II) with cytidine and amino acids

P RABINDRA REDDY* and A MOHAN REDDY

Department of Chemistry, Osmania University, Hyderabad 500 007, India

Mixed ligand complexes of Zn(II) with cytidine and amino acids, alanine, phenyl alanine and tryptophan were synthesized and characterized by elemental analysis, conductivity data, electronic spectra, IR, ^1H NMR and ^{13}C NMR spectra. In these complexes, the nucleoside acts as a monodentate ligand involving only N(3) in metal coordination whereas the amino acids coordinate through carboxylate oxygen and amino nitrogen. Conclusions drawn about binding sites are compared with the results obtained from solution studies. Interestingly the results from solution and solid state are in agreement, thus providing an opportunity to rationalize the binding sites in these systems.

*For correspondence