

ABSTRACT

Tizanidine and *Allopurinol* are used as muscle relaxant and to control excessive uric acid in blood respectively have been used as ligands. These ligands have ability to donate electrons to the metals. In the present study, synthesis of metal complexes of *Tizanidine* and *Allopurinol* was done by using metal-ligand (1:4) ratio. Metal complexes were characterized by using *XRD*, *FT-IR* and *Thermal gravimetry analysis*. The obtained data showed that *Tizanidine* was coordinated through nitrogen atom with the metal atom. The *antimicrobial activity* of the metal complexes has slightly higher activity as compared to the ligand itself.