



Biological Importance of Zn(II) and Hg(II) Ternary Complexes Derived From 2-Substituted Benzothiazoles and Amino Acids

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Abstract : Biological important ternary complexes of the type $[Zn(L-L)(A-A)]$ and $[Hg(L-L')(A-A)]$ have been synthesized and characterized by molecular weight determination, magnetic measurements, infrared studies. Based on the studies, a tetrahedral geometry has been proposed for the complexes which are coloured, thermally stable, monomeric and non-electrolytic in nature. The ligands and their metal complexes are tested against pathogenic fungi *Aspergillus niger* and *Fusarium oxysporum* to assess their fungicidal properties. The antifungal activity data reveals that metal complexes are found more fungi-toxic than the parent ligands.

Keywords : Benzothiazole, Spectral studies, Conductivity, Antifungal activity.

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