COMPLEXES OF NATURALLY OCCURRING LIGANDS WITH BIOLOGICALLY IMPORTANT METAL IONS IV

ISOLATION AND CHARACTERISATION OF METAL COMPLEXES OF 1-HYDROXYXANTHONE WITH MANGANESE, ZINC AND MAGNESIUM

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We have earlier reported(1) the synthesis of complexes of 1-hydroxyxanthone with copper, nickel and cobalt. These were orange or dark yellow solids and their compositions have been identified from analytical and spectral data. On account of the biological significance of these complexes, these investigations were extended to the complexes of this compound with other biologically active metals. The preparation and properties of the complexes of this ligand with manganese, zinc and magnesium are reported.

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These complexes were characterised using IR, UV and NMR spectroscopic data and elemental analysis. From these data the complexes were identified $MnL_2.H_2O$, Zn(L) (OMe) (H_2O)-H_2O and MgL(OMe) (H_2O). The UV visible spectra indicate that the major absorptions are of the charge transfer type and usually occur in the range of 410 nm to 430 nm.

References

1. Dangalla, A. C. M. *and* Ileperuma, O. A., *Proc. Sri Lanka Assoc. Advmt. Sci*, 37 (1), 54 (1981).