



ChemTech

International Journal of ChemTech Research

CODEN(USA): IJCRGG, ISSN: 0974-4290, ISSN(Online):2455-9555
Vol.10 No.10, pp 324-328,2017

Mixed ligand complexes of BenzaldehydeThiosemicarbazoneand Pyruvic acid semicarbazone withCo(II),Ni(II) and Cu(II)

P.R.Shirode

Department of Chemistry, Pratap College, Amalner (India)
(Affiliated to North Maharashtra University, Jalgaon, MH, India)

Abstract:The new Co(II),Ni(II) and Cu(II) complexes with benzaldehydethiosemicarbazone and pyruvic acid semicarbazone were prepared and characterized by various physico-chemical and spectroscopic methods. benzaldehydethiosemicarbazone is acting as bidentetneutral chelating ligand with S and N as the donor sites ,while pyruvic acid semicarbazone acts as tridentate monobasic chelating ligand with O and N as the donor sites. The molecular structure of complexes were investigated by using elemental analysis, absorption spectroscopy,IRspectroscopy,conductivity measurement and magnetic measurement, thermal analysis and antimicrobial screening.All the complexes shows octahedral geometry.

Keywords: Mixed ligand, benzaldehydethiosemicarbazone, pyruvic acid semicarbazone, transition metals.

P.R.Shirode /International Journal of ChemTech Research, 2017,10(10): 324-328.
