



## Synthesis and Characterization of Dicoumarol based Cu-Complexes

By Dholariya, Hitesh R. / Tarpada, Umesh P.

Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Preparation of Novel ligands | Our prime objective is to prepare a series of copper complex compounds which possess enhance biological activity by introducing 4-hydroxycoumarins and fluoroquinolones segments together. In the present article, we have synthesized twelve novel ligands and their Cu (II) complexes. We have focused much on antimicrobial activity, antioxidant and antitubercular activity. Results from antimicrobial activity revealed that Cu (II) complexes were found biologically active as compared to its ligands. Few of the complexes have been found more potent antimicrobial agent against gram positive bacteria. Results obtained from the in vitro anti-tubercular activity of all Cu (II) complexes indicated that, few compounds have been found more potent than that of standard drugs Ethambutol and Streptomycin. One compound has been emerged as the promising anti-tubercular member due to better activity as compared to Streptomycin. In vitro antioxidant activity of all the complexes exposed moderate to good ferric reducing power. One of the compounds showed good anti oxidant power. | Format: Paperback | Language/Sprache: english | 68 pp.



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