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Efficient and environmentally benign synthetic protocol for the synthesis of biopotent heterocycles

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B iologically potent materials are one of the most important of classes for the new generation. The demand of the present era is to prepare novel co-ordination complexes which may be fruitful to fulfill the requirements of the society. They make us open the new vistas of upcoming researches. One of the ways of restoring the activity of organic moieties is to modify and tailor the structure by introducing a potent and active species. Of course toxicity is another challenge that has to be looked after the cardinal objectives of metal chelation, therapy for such problems are to modify specificity of action, reduce toxicity, and improve stability to cope with competitive compounds. For the same, copper complexes form a promising area of research. Their synthetic utility in fields like pharmaceutical industry biological, industrial, agricultural and medicinal area is enormous. Definitely they show noticeable antifungal, antibacterial and antimicrobial properties. Their synthesis can be systematically captured and they can be characterized by elemental and analytical techniques. Spectroscopy involving FT-IR, NMR, ESR and Mass play a vital role in their identification. Thin layer chromatography is highly applicable for checking their purity. It is most widely used technique for separation of metal complexes. Similarly, their applications as antimicrobial agents, antioxidants, plant growth regulators are worth mentioning. Overall aspect is to promote the design and efficient use of environmentally benign chemicals, and chemical processes that are novel innovations are beneficial to society.

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