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网络版论文摘要

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靛红席夫碱及其 Cu(Ⅱ) / Zn(Ⅱ) 配合物的合成与抗稻瘟菌活性研究

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摘 要 以靛红为原料合成了系列席夫碱类化合物及其 Cu(Ⅱ) 、Zn(Ⅱ) 配合物 ,研究了它们在抗稻瘟菌方面的活性 ,发现靛红及其席夫碱类化合物没有好的抑制稻瘟菌孢子萌发的活性 ,而其 Cu(Ⅱ) 、Zn(Ⅱ) 配合物具有较好的活性 ,其中双靛红席夫碱的 Cu(Ⅱ) 的活性接近 Carbendazim 的水平。

关键词 稻瘟菌 靛红席夫碱 配合物

Syntheses and the Bioactivty Screen on Inhibition against *Magnaporthe grisea* of Isatin Schiff Bases and their Cu(Ⅱ) / Zn(Ⅱ) Complex

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Abstract A series of schiff base compounds were synthesized by the condensation of isatin and primary amine and then five Cu(Ⅱ) / Zn(Ⅱ) complexes were synthesized with these schiff bases as ligand. All these compounds were screened on the activity of inhibition against germination of *Magnaporthe grisea* spores and found that isatin and its schiff bases were not active , but the complexes showed potent activity , one of which was comparable with Carbendazim.

Keywords *Magnaporthe grisea* , Isatin , Schiff base , Complex