

### 论文

## 2-呋喃硫羰基脒衍生物及其过渡金属配位化合物的合成和抑菌活性

葛蔚颖;徐丽君

山东医科大学药理学系,济南250012

摘要:

本文设计合成了九个2-呋喃硫羰基脒衍生物及其十三个不同的过渡金属配位化合物,并进行了抑菌实验,表明化合物对受试各种细菌均具有不同程度的抑菌作用。与2-呋喃硫羰基脒衍生物相比,配位化合物的抑菌活性发生显著的改变。其中,铜(II)、镍(II)、锌(II)和银(I)等配位化合物的活性较强,其它过渡金属配位化合物的活性较低。多数化合物对革兰氏阳性细菌的敏感性大于对革兰氏阴性细菌。

关键词: 2-呋喃硫羰基脒 过渡金属配位化合物 抑菌活性

### SYNTHESIS AND BACTERIOSTATIC ACTIVITY OF 2-FURANTHIOCARBOXYHYDRAZONES AND THEIR TRANSITION METAL COMPLEXES

WY Ge and LJ Xu

Abstract:

In this paper, 9 compounds of 2-furanthiocarboxyhydrazones and 13 of their transition metal complexes have been synthesized and tested for bacteriostatic activity against several kinds of bacteria. The results showed that all the compounds tested possessed antibacterial activity. The complexes of Cu(II), Ni(II) and Zn(II) ions display higher activity against gram-positive bacteria than 2-furanthiocarboxyhydrazones and the other complexes. The complex of Ag(I) ion is more active against gram-negative bacteria, as compared to 2-furanthiocarboxyhydrazones and the other complexes. The results are also in accord with the earlier idea that the "NCS" group is the active site and that their activity has certain relation with their complexing ability.

Keywords: Transition metal complexes Bacteriostatic activity 2-Furanthiocarboxyhydrazones

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