

论文

水杨醛缩甲基氨基硫脲Schiff碱配合物的合成与表征

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摘要:

选用头孢类医药中间体2-甲基氨基硫脲与水杨醛反应,合成了水杨醛缩2-甲基氨基硫脲schiff配体,然后与二价过渡金属离子反应合成了新型水杨醛缩甲基氨基硫脲Schiff碱配合物.通过元素分析、红外光谱、紫外光谱及摩尔电导分析等手段,对配体和配合物进行了表征,并对其抑菌活性进行了研究.

关键词: 甲基氨基硫脲 水杨醛 Schiff碱配合物 抑菌效果

Synthesis and characterization of salicylaldehyde methylthiosemicarbazone Schiff base complexes

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Abstract:

New Schiff base ligand and complexes were prepared. 2-methylthiosemicarbazone, the middle product of ceftadine, was selected to react with salicylaldehyde to form new Schiff bases ligand, and then new complexes were synthesized by H2L and transition metal elements with bivalence. The coordination method and construction of the ligand and complexes were characterized by elemental analysis gravity analysis, infrared spectrum analysis, ultraviolet spectrum analysis, molar conductance analysis and thermal gravity analysis. Then the antibacterial ability of the ligand and complexes were studied.

Keywords: methylthiosemicarbazone salicylaldehyde Schiff base complexes antibacterial ability

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