

عنوان مقاله:

A comprehensive survey upon palladium(II) complexes of hydrazone of isoniazid

محل انتشار:

همایش ملی نانو فناوری و شیمی سبز (سال: 1391)

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خلاصه مقاله:

In this letter, the synthesis of novel palladium(II) complexes with new ligand derived from hydrazone of isoniazid has been reported. The complexes have general compositions $[Pd(L)_2X_2]$ or $[Pd(L)_3](ClO_4)_2$, where L = N-isonicotinamido-furfuralimine (INH-FFL) and X = Cl⁻. The ligand hydrazone behaves as neutral bidentate (N and O donor) through the carbonyl oxygen and azomethine nitrogen. On the basis of elemental analysis, molecular weight determinations, magnetic susceptibility/moment, thermogravimetric, electrochemical, and spectroscopic studies, the new complexes have been characterized with octahedral geometry. The antibacterial and antifungal studies of the present complexes show that they are moderate antibacterial and antifungal agents. The reaction of palladium (II) salts with INH-FFL resulted in the formation of $[pdX_2(L)_n]$, where X = Cl⁻, n = 2, and $[pd(L)_n]X_2$, while X = ClO₄⁻, n = 3.

کلمات کلیدی:

Complex; Ligand; Hydrazone; Isoniazid; Antibacterial; Antifungal

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