



Synthesis and Characterization Pd(II) Macrocyclic Complexes and Evaluation their Antibacterial Activity

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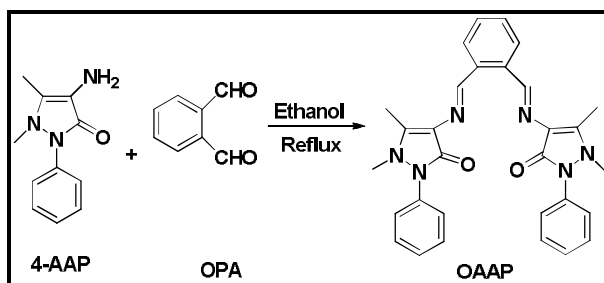
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ABSTRACT

A series of Pd(II) complexes have been synthesized from macrocyclic Schiff base ligands. The ligands were prepared by condensation of 4-aminoantipyrine derivative with different diamines and hydrazides. Macrocyclic Schiff bases are tetradentate with N4 donor system around the metal ion. Octahedral geometry has been assigned for all complexes. All these compounds were characterized by different analytical methods such as elemental analysis, mass, FTIR, ¹H-NMR, UV-Visible, magnetic susceptibility, molar conductance and thermal studies. All ligands and complexes were screened for their in vitro antimicrobial activity.

Graphical Abstract



Synthesis of OAAP.

Keywords: Antipyrine, Macrocyclic Schiff base, Pd complexes, Antibacterial activity.