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Investigation of antimicrobial activity against pathogenic strains of novel Pt(II) complexes

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The coordination chemistry of transition metal complexes with azomethine ligands has been widely studied, partly due to the use of such compounds as antibacterial drugs in the field of medicine. In particular, titanium (IV), platinum (II) and silver (I) complexes have been used in the treatment of numerous diseases. The aim of this work was to investigate the antibacterial and antifungal activities of new Pt(II) complexes. Four new Pt(II) complexes have been examined for antibacterial activity against pathogenic strains *Listeria monocytogenes* 4b ATCC19115, *Staphylococcus aureus* ATCC25923, *Escherichia coli* ATCC1280, *Salmonella typhi* H NCTC 901.8394, *Brucellaabortus* RSKK03026, Staphylococcus epidermis sp., *Micrococcus luteus* ATCC93419, and *Shigelladysenteriatyp* 10 NCTC 9351, and antifungal activity against *Candida albicans* Y-1200-NIH, Tokyo. The antimicrobial test results of Pt(II) complexes including chloride ion in coordination sphere exhibited better activity than some known antibiotics.

Biography

Hatice Öğütcü is Associate Professor of Microbiology at Ahi Evran University, Turkey. She obtained her undergraduate degree in Biology in 1991 at Atatürk University. She graduated in Biology at Atatürk University. She attained the Doctoral degree in Microbiology in 2000.

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