The Cytotoxicity and Inhibitory Effect of Ortho-Amino Phenyl Mercury(II) Chloride against Growth of Some Bacteria (invitro)

Abstract

It was found that 0.2g of Ortho-Aminophenylmercury(II)chloride (OAPMC) dissolved in HCl/water added in to Muller-Hinton Agar medium, inhibited the growth of three reference strains bacteria [Escherichia coli ATCC25922,Pseudomonas aeruginosa ,ATCC27853 and Staphylococcus aureus, ATCC25923] in addition to five clinical isolates (Staphylococcus aureus, Streptococcus Pyogenes, Pseudomonas-aeruginosa, Escherichia-coli and Klebsiella aerogenes). Higher concentrations of (OAPMC) solution into the medium inhibited growth of bacteria under study was more strongly. The minimal inhibitory concentration (MIC) and the cytotoxicity of (OAPMC) were studied against human blood and it was found that it had no hemolytic effects at different concentrations. Antibiotic sensitivity was tested for (OAPMC) and the results were evaluated: a susceptible intermediate and resistant respectively.