

## Estimation of the Biological Activity of Some Commercial Bleaching Solutions (Hypochlorites) on Pathogenic Bacteria

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### **Abstract**

Hypochlorite solutions are in general strong oxidizing agents. The study included of five species of hypochlorite solutions widely used as commercial bleaching solutions (Shoof, Oroplus, Alwazir , Lamoia and Fas) and their concentrations were confirmed chemically by potentiometric titration methods previously and applicate their ability and efficiency against two types of bacteria (E.coli and Staphylococcus arueus) which are isolated from human infected sample in general Heat hospital /Iraq. The results revealed that all bleaching solutions have anti-bacterial influence against two species of bacteria and more successful against Staphylococcus aureus than the E.coli especially with Alwazir solution give high significant difference compared with other solutions ,also the outcomes showed sensitivity of bacteria enhanced with concentrations of bleaching solutions. The study indicates the fast reduction rate in the 30S reaction showed the immediate efficiency of Hypochlorites. Finally the current study suggest and encourage to use hypochlorite solutions as antiseptics and disinfectants to killing species of bacteria which proved their efficiency during this study. **Keywords:** Bleaching solutions, E.coli and Staphylococcus arueus, Antimicrobial, Microorganism, Hypochlorite's.

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