

# **PREPARATION OF NANO-SILVER PARTICLES BY CHEMICAL METHOD FOR ANTI-BACTERIA'S APPLICATIONS**

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## **ABSTRACT**

In this search , Nano-silver particles were prepared by chemical method(reduction method), the homogenous nano silver particles with size average (58.82 nm) were obtained from this method, different molar concentrations of reactive materials were used, the optimum molar concentration give this size average, Stable Ag Nano particles were prepared, their shapes and size distribution characterized by particle characterizer and scanning electron microscopic (SEM), and force electron microscopic (AFM) are used, the (DLS) **Zetazaser** tool was used to calculate of Zeta Potential and (PDI) of resulting nanoparticles , these results were showed by figure (3a,b), AFM and SEM pictures were showed in figure (4,5),The antimicrobial activity of Ag nanoparticles was investigated against yeast , the bio bacterial activity was showed these nanoparticles were very active to (E colie) bacteria.

**KEYWORDS:** Silver Nanoparticles, Reduction Chemical Method, Bioactivity