

عنوان مقاله:

Antibacterial property of a new metallic nanoparticles composite

محل انتشار: بیست و یکمین کنگره بین المللی میکروب شناسی ایران (سال: 1399)

تعداد صفحات اصل مقاله: 1

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خلاصه مقاله:

Background and Aim : Bacterial infections are increasing in all parts of the world and become a major challenge in the medicine and medical fields. Continuous and extensive use of antibiotics has led to the emergence of bacterial resistance, and the expansion of new bacterial resistance mechanisms threatens our ability to prevent and treat common infectious diseases. Therefore, the search for and development of new antimicrobial compounds that have antibacterial potential against multi-drug resistant bacteria is an important priority. Nanoparticles with their enhanced and unique physicochemical properties, such as ultra-small sizes, large surface area/mass ratio, and increased chemical reactivity, have led research toward new prospects of treating and preventing microbial infections. In our study, a new metallic nanoparticles composite was develop as a potential antibacterial agent.Methods : The metallic nanoparticles was studies through MIC and MBC.Results : The synthetized metallic nanoparticles composite showed high purity and uniform particle size distribution with homogeneous shape. Moreover, the metallic nanoparticles would provide an emerging method in the development of modern pharmaceutical science for conducting proprietary treatment processes for bacterial infection. However, the antibacterial efficacy of .nanoparticles necessitate optimization of their physical, chemical, and biological characteristics

کلمات کلیدی:

New antibacterial agent, metallic nanoparticles composite, high antibacterial activity

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