

## عنوان مقاله:

In vitro investigation of cisplatin loaded poly butyladipate (PBA) nanoparticles prepared by the double emulsion method

## محل انتشار:

دومین کنگره بین المللی علوم و فناوری نانو (سال: 1387)

تعداد صفحات اصل مقاله: 2

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## خلاصه مقاله:

In the pharmaceutical field, several advantages of drug delivery systems with nano size range have been shown including increasing solubility, enhancing dissolution rate and improving bioavailability. The main purpose of nanotechnology is the design of miniaturized drug carrier systems to achieve adequate stability, improved absorption, controlled release, quantitative transfer and therefore the expected pharmacodynamic activity. Cisplatin is a commonly used chemotherapeutic agent for treatment of various cancers, including testicular cancer ovarian cancer, lymphoma, and glioma.[1,2]. As a preliminary study polymeric nanoparticles as a drug delivery platform was investigated, the objectives of this study were to develop and characterize cisplatin-loaded biodegradable PBA nanoparticles in order to obtain a controlled release system to treat arthritic conditions. The influence of the polymer concentration, volume of internal and external water phase, and volume of oil phase and level of drug loading on nanoparticle characteristics (encapsulation efficiency, particle size and surface morphology) and in vitro release profiles was studied to optimize the nanoparticle system

## کلمات کلیدی:

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