

## عنوان مقاله:

Study of antimicrobial effect of ethanol extract of *Cnicus benedictus* and *Parietaria judaica*, on the bacteria  
*A.baumannii* and *S.aureus*

## محل انتشار:

بیست دومین کنگره میکروب شناسی ایران (مجازی) (سال: 1400)

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## خلاصه مقاله:

Background and Aim : Infectious diseases caused by resistant infectious agents have led to serious complications. This study was designed to determine the antimicrobial efficacy of the hydroalcoholic extracts of *Cnicus benedictus* and *Parietaria judaica* against *Staphylococcus aureus* and *Acinetobacter baumannii*. Methods : hydro alcoholic extract of medicinal plant collected from The scope of Chaharmahal va Bakhtiari; Extraction produced by soaking method then The MIC values and MBC of the *Cnicus benedictus* and *Parietaria judaica* extract against the bacterial strains *Staphylococcus aureus* ATCC ۲۵۹۲۳, *Acinetobacter baumannii* PTCC ۱۸۵۵) were determined by a micro broth dilution method based on instructions CLSI. Results : The MIC value for the hydro alcoholic extract of *Cnicus benedictus* was ۴ mg/mL for *Acinetobacter baumannii* and ۲ mg/mL for *S. aureus*. The MIC value of the ethanol extract of *Parietaria judaica* was ۴ mg/mL for *Acinetobacter baumannii* and ۴ mg/mL for *S. aureus*. The MBC value of the ethanol extract of *Cnicus benedictus* was ۸ mg/ml for *S. aureus* and ۸ mg/ml for *A. baumannii*. The MBC value of the ethanol extract of *Parietaria judaica* was ۱۶ mg/ml for *S. aureus* and ۱۶ mg/ml for *A. baumannii*. Conclusion : According to antibacterial effects of alcoholic extracts, The best inhibitory effect on *S. aureus* for *Cnicus benedictus* and The best inhibitory effect on *A. baumannii* for *Parietaria judaica*. the necessity of further research on this plant in .order to extract its effective compounds and its effects on a variety of pathogens is suggested

## کلمات کلیدی:

Antimicrobial effects, *Cnicus benedictus*, *Parietaria judaica*, *Staphylococcus aureus*, *Acinetobacter baumannii*

