

عنوان مقاله:

Anti listeria effects of Echinophora platyloba extracts in broth medium and milk

محل انتشار:

بیستمین کنگره بین المللی میکروب شناسی ایران (سال: 1398)

تعداد صفحات اصل مقاله: 1

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خلاصه مقاله:

Introduction and Objectives: Listeria monocytogenes is one of the main foodborne bacteria that most of the time transmitted via dairy products. Recently, consumers demand to replace chemical preservatives with natural ones. The aim of this study was to investigate the antibacterial effects of Echinophora platyloba extracts on Listeria monocytogenes in broth medium and milk. **Materials and Methods:** The standard method of microdilution was used to determine the minimum inhibitory concentration and the minimum bactericidal concentration of aqueous and ethanol extracts of Echinophora platyloba on tested bacteria. **Results:** The results showed that the Minimum inhibitory concentrations of aqueous and ethanol extracts, were 50, 70 mg/ml respectively and the minimum bactericidal concentrations for these extracts, were 70, 100 mg/ml respectively. **Conclusions:** Based on the results, both aqueous and ethanol extracts showed acceptable anti listeria effects at 4°C and 25°C in milk compare to the control group ($P < 0.05$). At the same concentrations, the aqueous extract showed a stronger effect on the Listeria monocytogenes than ethanol extract. Also, the results revealed that the antimicrobial effect of the aqueous extract was greater at 4°C than (25°C in the same concentration ($P < 0.05$).

کلمات کلیدی:

Listeria monocytogenes, extract, Echinophora platyloba, milk

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