

عنوان مقاله:

Antimicrobial activity of Hibiscus sabdariffal extract against human pathogen

محل انتشار:

مجله بین المللی تحقیقات پیشرفته زیست شناختی و زیست پزشکی، دوره 2، شماره 2 (سال: 1393)

تعداد صفحات اصل مقاله: 7

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خلاصه مقاله:

The purpose of this study was to examine the evolution of antimicrobial activity of flower extract of Hibiscus sabdariffal against antibiotic-resistant Escherichia coli and Staphylococcus aureus that isolates from the urinary tract infection by microtiterplate method. All 42 strains 30 E.coli and 12 S. aureus isolated from urine culture of hospitalized patients in Zabol (Zabol, south-eastern Iran) suffered from urinary tract infections during the years 2011- 2012 were evaluated and the extract of Hibiscus sabdariffal obtained by rotary and the minimum inhibitory concentrations were investigated to characterize the antimicrobial activities of this extract. The result show that E. coli were resistance to 4 of the agent and more resistance to tetracyclin(63.3%), erythromycin(56.6%) and cefixime(40 %), S.aureus more sensitive were antibiotic resistance to vancomycin and cefixime. The highest MIC values was found to be 20mg/ml against two E.coli.

The least MIC values was found to 1.25 mg/ml against three S.aureus

کلمات کلیدی:

Hibiscus sabdariffal, Antibacterial activity, Human pathogen

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