

عنوان مقاله:

Study of phenotypic antimicrobial resistance to cephalosporins in Shiga toxin-producing *Escherichia coli* strains isolated from sheep carcasses in Kerman

محل انتشار:

بیست و سومین کنگره بین المللی میکروب شناسی ایران (سال: 1401)

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خلاصه مقاله:

Background and Aim : Shiga toxin-producing *Escherichia coli* (STEC) are one of the most important food-borne pathogens associated with fecal contaminations in the foods produced by animals. The present study was carried out in order to study of phenotypic resistance to cephalosporins (cefixime and cephalixin) in STEC strains isolated from sheep carcasses in Kerman. **Methods :** In this study 30 STEC isolates were confirmed by conventional PCR methods. Disk diffusion technique was used to analyze STEC isolates for resistance against cefixime and cephalixin. **Results :** Among the 30 STECs, 24 (80%) were resistant to the cephalixin and 17 (56.6%) were resistant to the cefixime. Also, 6 isolates (20%) were evaluated as sensitive to cephalixin and 9 isolates (30%) were evaluated as sensitive to cefixime. **Conclusion :** The results of this study show that STEC strains obtained from raw sheep meat have significant resistance to cefixime and cephalixin, which potentially threatens public health.

کلمات کلیدی:

Shiga toxin-producing, *Escherichia coli*, Sheep, Antibiotic resistance, cephalosporins

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