

عنوان مقاله:

Identification of β -Lactamase-Negative-Ampicillin Resistance Strains of Escherichia coli in ۱۵۰ Isolates from Urinary Tract Infection and Fecal Flora in Kerman

محل انتشار:

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خلاصه مقاله:

β -lactamases are enzymes which inactivate the β -lactam antibacterial agents and are one of the major causes of resistance against these drugs. Recently there are reports on the isolation of bacteria which does not produce β -lactamase, but are resistant to penicillins. In the present study, β -lactamase production was determined using iodometric method on ۱۵۰ ampicillin resistance Escherichia coli isolates from urinary tract infections (UTI) and fecal samples. These strains were resistance to both ampicillin and the combination of amoxicillin-clavulanic acid. They were identified as non- β -lactamase producers by iodometric method. Minimum inhibitory concentration for ampicillin in these strains were $>512 \mu\text{g/ml}$. This is the first report on the identification of ampicillin resistance β -lactamase negative E. coli in Iran

کلمات کلیدی:

β -lactamase, E. coli, Ampicillin

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