

عنوان مقاله:

Evaluation of antibiotic resistant and molecular identification of Escherichia coli isolates from poultry colibacillosis in Tabriz city during ۲۰۲۰

محل انتشار:

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خلاصه مقاله:

This study conducted to evaluation of antibiotic resistant and molecular identification of Escherichia coli isolates from poultry colibacillosis in Tabriz city during ۲۰۲۰. Forty-six Escherichia coli samples from colibacillosis cases of ۱۰ aviculture in Tabriz city, which had been previously isolated and detected by microbiological and biochemical methods, were identified molecularly with ۱۶s rRNA primers by PCR method. To determine the pattern of antibiotic resistance of isolates, common antibiotics available in the market were used by Kirby-Bauer method. Of ۴۶ Escherichia coli samples tested, ۴۰ isolates (۸۶.۹%) were identified as Escherichia coli. All strains of Escherichia coli (۱۰۰%) were resistant to ampicillin. The most strains were resistant to ceftriaxone (۷۵%), neomycin (۷۰%) and nitrofurantoin (۷۰%). Twelve Escherichia coli strains (۳۰%) were resistant to all of tested antibiotics. It can be concluded that the antibiotic resistance of Escherichia coli isolates to common antimicrobial drugs used in the poultry industry is high. So, implementation of national monitoring programs is strongly needed for antimicrobial resistance and rational use of antibiotics.

کلمات کلیدی:

Colibacillosis, Escherichia coli, Antibiotic resistance, poultry

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