

## عنوان مقاله:

Detection of tetracycline resistance genes in bacteria isolated from fish farms using polymerase chain reaction

## محل انتشار:

گفتمان پژوهش دامپزشکی، دوره 5، شماره 4 (سال: 1393)

تعداد صفحات اصل مقاله: 7

## نویسندگان:

Keshvad Hedayatianfard - *Graduated from School of Veterinary Medicine, Shiraz University, Shiraz, Iran*

Mostafa Akhlaghi - *Aquatic Animal Health Unit, School of Veterinary Medicine, Shiraz University, Shiraz, Iran*

Hassan Sharifiyazdi - *Department of Clinical Sciences, School of Veterinary Medicine, Shiraz University, Shiraz, Iran*

## خلاصه مقاله:

Five common tetracycline resistance genes tet(A), tet(B), tet(M), tet(O) and tet(S) were studied by polymerase chain reaction in ۱۰۰ bacteria isolated from Iranian fish farms. In the antibiogram test most of the bacteria were either intermediately or completely resistant to tetracycline. Nine isolates out of ۴۶ *Aeromonas* spp. contained either tet(A/M/S) resistant genes as follows: tet(A) in *A. veronii/sobria* (n = ۱), *A. media* (n = ۲), *A. aquariorum* (n = ۱), and *A. veronii* (n = ۳); tet(M) in one isolate of *A. sobria* and tet(S) in ۱ isolate of *A. jandaei*. In other bacteria, tet(A) gene was detected in *Citrobacter freundii* (n = ۱), *Pseudomonas putida* (n = ۱); tet(S) was also identified in *Yersinia ruckeri* (n = ۱), *Arthrobacter arilaitensis* (n = ۱) and *P. putida* (n = ۱). In total, ۳۱ isolates (۳۱.۰۰%) contained the tetracycline resistance genes in which ۲۱ bacteria (۲۱.۰۰%) showed the tet(S), nine bacteria (۹.۰۰%) contained the tet(A) and ۱ bacteria (۱.۰۰%) was positive for tet(M). All of the *L. garvieae* isolates contained tet(S) in this study. The most widely distributed resistance gene was gene tet(A) and the least known resistance genes was tet(M) among the studied bacteria of the genus *Aeromonas* in this study.

## کلمات کلیدی:

Bacteria, Fish farm, Polymerase chain reaction, Resistance gene, Tetracycline

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1818107>

