

عنوان مقاله:

Genotyping of *Clostridium perfringens* isolated from broiler meat in northeastern of Iran

محل انتشار:

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نویسندگان:

Asma Afshari - Graduate Student, School of Veterinary Medicine, Ferdowsi University of Mashhad, Mashhad, Iran

Abdollah Jamshidi - Department of Food Hygiene, School of Veterinary Medicine, Ferdowsi University of Mashhad, Mashhad, Iran

Jamshid Razmyar - Department of Clinical Sciences, School of Veterinary Medicine, Ferdowsi University of Mashhad, Mashhad, Iran

Mehrnaz Rad - Department of Pathobiology, School of Veterinary Medicine, Ferdowsi University of Mashhad, Mashhad, Iran

خلاصه مقاله:

Clostridium perfringens is an important cause of bacterial food poisoning worldwide. The disease is caused by *C. perfringens* enterotoxin (CPE) encoded by *cpe* gene. The aim of this research was to identify the different types of *C. perfringens* and the presence of *cpe* gene in isolated bacteria from broilers' meat marketed in retail meat shops of Mashhad city in Northeastern of Iran. After isolation of *C. perfringens* using conventional culture method and confirmation by specific 16S rDNA gene, a multiplex polymerase chain reaction assay with specific primers, were performed for toxin typing of isolates. *Clostridium perfringens* was isolated from 31 broilers' meat samples (15.50%) out of 200 samples and for toxin typing the results showed 9 isolates as type A (29.03%) and 22 isolates as type C (70.96%). In this study, *cpe*-positive *C. perfringens* were detected in eight isolates of type C (25.00%). Our results indicated that *C. perfringens* type C is the most common type in broiler chicken carcasses.

کلمات کلیدی:

Clostridium perfringens, *cpe* gene, Multiplex PCR

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