

## عنوان مقاله:

Clostridium perfringens typing in ruminants in south of Kerman province by PCR

## محل انتشار:

بیستمین کنگره بین المللی میکروب شناسی ایران (سال: 1398)

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## خلاصه مقاله:

**Introduction and Objectives:** Clostridium perfringens (*C. perfringens*) is a gram positive, sporulating bacterium that is extremely pathogenic and responsible for a wide spectrum of anaerobic diseases in animals and humans. This bacterium is classified into five toxinotypes (A, B, C, D, and E). The aim of this study was Clostridium perfringens typing in ruminants in south of Kerman province by PCR. **Materials and Methods:** A total of 495 fecal samples were obtained from different ruminants and analyzed for typing *C. perfringens* by multiplex PCR. Specific primers for  $\alpha$ ,  $\beta$ ,  $\epsilon$ , and  $\iota$  toxins genes were used. **Results:** Out of 495 investigated samples, 906 bacterial isolates were morphologically selected for microbiological examination. Only 53 *C. perfringens* strains were confirmed by multiplex PCR. Interestingly, the predominant *C. perfringens* toxovar was type A (50 isolates), but also types D (3 isolates) could be identified as pathogens ruminants in south of Kerman province. Other types of *C. perfringens* (B, C and E) were not detected. **Conclusions:** The detection of toxigenic *C. perfringens* isolates with PCR was performed for the first time in this area. Results showed that multiplex PCR is a useful and reliable tool for *C. perfringens* genotyping in routine veterinary diagnostics and epidemiological studies.

## کلمات کلیدی:

Clostridium perfringens, PCR, Ruminants, South of Kerman

## لینک ثابت مقاله در پایگاه سیویلیکا:

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