

عنوان مقاله:

Detection of *Coxiella burnetii* in bulk tank milk samples from dairy bovine farms using nested-PCR in Qom, Iran, 2011

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خلاصه مقاله:

BACKGROUND: Q fever is a zoonotic disease caused by *Coxiella burnetii*, a species of bacteria that is distributed worldwide. In cattle, *Coxiella burnetii* infections are generally asymptomatic but can also be associated with reproductive disorders. **OBJECTIVES:** The aim of this study was to achieve molecular detection of *Coxiella burnetii* in dairy bovine milk farms using Nested PCR in Qom province, Iran. **METHODS:** From January to February 2011 (winter) and July to September 2011 (summer) a total of 100 bovine bulk milk samples were equally collected from five areas of Qom. The nested PCR assay used to screen for *C. burnetii* was designed from the nucleotide sequence of the *com1* gene encoding a 27-kD outer membrane protein (OMP). **RESULTS:** In this study, 14% (14 of 100) of bulk milk were positive. **CONCLUSIONS:** These results support the hypothesis of high prevalence and endemic pattern of Q fever in Qom province of Iran.

کلمات کلیدی:

Coxiella burnetii, Q fever, nested PCR

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