

عنوان مقاله:

Characterization, ribotyping and capsular PCR typing of *Pasteurella multocida* isolated from Iranian sheep and goats

محل انتشار:

مجله بین المللی میکروبیولوژی مولکولی و بالینی، دوره 6، شماره 1 (سال: 1395)

تعداد صفحات اصل مقاله: 6

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خلاصه مقاله:

*Pasteurella multocida* is considered to be an important cause of ovine pneumonia and results causes considerable economic losses in Iran. Ribotyping PCR (Ribo-PCR) was used for investigating the diversity of ovine and caprine *P. multocida*. A total of ۱۲۰ swab tonsil and nasal samples were obtained from sheep and goats. They were analyzed by biochemical tests and Ribo-PCR ۱۶S-۲۳S ribosomal RNA genes. Twenty samples representing *Pasteurella* phenotypes by Entero rapid kit and ۱۷ out of ۲۰ isolates were identified as *P. multocida*. Capsular type A was dominant among the isolates and was variable than serogroup D. Nine isolates including JF۶۹۴۰۰۴.۱ and ۸ isolates including JF۶۸۱۹۷۳.۱ showed ۱۰۰% and ۹۴% similarity, respectively. Two minor cluster I and II was obtained with no significant diversity among the isolates. Cluster II was divided in four sub cluster including IIa, IIb, IIc and IId. Molecular approaches such as Ribo-PCR are necessary for determining and characterizing the diversity of *P. multocida* and understanding their interactions with host. The study has been the sensitive levels of Ribo-PCR in epidemiological studies of pasteurellosis, however, correlation among diversity of isolates and host origin is not fully understood.

کلمات کلیدی:

PCR-Ribotype, *Pasteurella multocida*, Sheep, goats, Iran

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