Isolation and Molecular Characterization of Mycolplasm arginini isolated from sheep and goats with respiratory manifestation in Dakahilia Governorate

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Abstract:

In this study a total of 160 Nasal swabs were collected from sheep (79) and goats (21) suffer from respiratory manifestation, Mycoplasma spp. was isolated from 40 samples (25%) from both sheep and goats. In sheep the percent of isolation was (25.32%) 20 isolate out of 79 nasal swabs, while the percent of isolation in goat was (24.69%) 20 isolate out of 81 nasal swabs examined. According to age the higher percent of isolation was found in age group (1- 2) year old sheep (50%) as 7 isolates out of 14 nasal swabs examined, while in goat the higher percent of isolation was in age group (6-12 month old ) by 47.83% (11 isolates out of 23 nasal swabs examined. The lower isolation rates were found in adult sheep and goat (> 2 year old) by 15.38% in sheep and 24.69% in goat. Mycoplasma isolates was molecularly characterized by PCR and DNA sequencing as Mycoplasma arginini and submitted to Gen Bank. An accession number has been assigned to each nucleotide sequence and was KP972458-KP972459.

Keywords:

Mycoplasma , pneumonia

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