



Search



Home

Editorial Board

Archive

In Press Articles

Author's Guide

Submission

Subscription

Top 10

Contact us

Impact Factor: 0.813

5-Year Impact Factor: 0.74



Visitors:

909 158

← Pak Vet J, 2017, 37(1): 69-72 →

### Genotyping of *Mycoplasma bovis* Isolated from Cattle Suffering from Respiratory Manifestation in Menofia Province, Egypt

Eman E. Abdeen<sup>1\*</sup>, Walid S. Mousa<sup>2</sup> and Iman I. Suelam<sup>3</sup>

<sup>1</sup>Department of Bacteriology, Mycology and Immunology, <sup>2</sup>Department of Animal Medicine and Infectious diseases, University of Sadat City, Egypt; <sup>3</sup>Educational Veterinary Hospital, Faculty of Veterinary Medicine, Zagazig University, Egypt

\*Corresponding author: eman.abdeen2014@yahoo.com

#### Abstract

*Mycoplasma bovis* in cattle may cause economic losses in cattle farms. Bovine mycoplasmosis is endemic in Egypt. The aim of the current study to determine the occurrence and molecular characterization of *M. bovis* strains recovered from cattle in Egypt. *M. bovis* was isolated by standard methods from nasal swabs, oral and conjunctival swabs of 200 diseased calves with percentages of 40, 15 and 20%, respectively. The examined *M. bovis* isolates were PCR positive to amplified fragment size 1626 bp of *uvrC* gene, 1007 bp of *gapA* gene and 797 bp of p40 pseudogene. Sequence analysis of *uvrC* gene of the field isolates showed (95.3%) similarity when compared with each other and (100%) identity with *M. bovis* reference strain (PG45) and the field strains on GenBank. Analysis of *gapA* gene of *M. bovis* isolates (Egy-8-Fa-14 and Egy-9-DK-14) showed (100%) identity between each other and (98.2%) identity with the reference strain (PG45). Our isolates showed (98.9% up to 100%) identity when compared with international field strains in GenBank. Concerning analysis of p40 pseudogene our field isolates showed (97.5%) identity when compared with each other, while (Egy-12-Fa-14) showed (99.8%) similarity with both *M. bovis* PG45 reference and field strains on GenBank. In conclusion *M. bovis* is circulating in bronchopneumonic calves in Egypt. This is the first record in Egypt to investigate some *M. bovis* genes by nucleotide sequence analysis.

**Key words:** Genotyping, *Mycoplasma bovis*, PCR, Respiratory



ISSN 0253-8318 (PRINT)  
ISSN 2074-7764 (ONLINE)

This title is  
now indexed  
in Scopus

refine your research  
SCOPUS

