

Cairo University
Faculty of Veterinary Medicine
Department of Virology

Name: Eman Mohamed Mohamed Abo Hatab.

Date and Place of birth: 28/2/1971, Cairo.

Nationality: Egyptian.

Religion: Moslem.

Degree: PhD degree of Veterinary Medical Sciences.

Specialty: Virology.

Supervisors:

1- Prof. Dr. Mohamed Samy Saber.

Professor of Virology, Faculty of Veterinary Medicine, Cairo University.

2-Prof. Dr. Hussein Aly Hussein

Professor of Virology, Faculty of Veterinary Medicine, Cairo University.

3- Dr.Hadia Abd Elrehem Ali Moussa.

Head Research Instituted of Animal Health research.

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Abstract

G10 serotype of group A rotaviruses was isolated and characterized from fecal samples collected from camel with diarrhea in farms at Alexandria and Esmalia governorates after preparation of feacl samples for virus isolation and propagation on MA 104 cell line for five passages, two isolates were successfully isolated with a clear and reproducible CPE on the inoculated cells. The isolates were identified antigenically using antigen capture ELISA based on monoclonal antibodies that able to detect any group A rotavirus. Viral RNA was extracted from the tissue culture harvest of the propagated viruses.RT-PCR using primers specific for VP6 and VP7 of group A rotaviruses was employed and confirmed the molecular characterization of the isolates Revealing the correct and expected bands. Amplification of the VP7 gene in the extracted RNA was conducted using PCR and the positive bands were eluted from the agare gel and sequenced using VP7 specific primers sequence results indicated that both isolates had Maximum idently that both isolates had Maximum idenntly to the G10 serotype of group A bovine rotaviruses ranging from 90-93%.This is the first report on the circulation of G10serotype of group A rotaviruses in camel.

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