Cairo University
Faculty of Veterinary Medicine
Microbiology Department

Phenotypic and Genotypic Characterization of *Salmonella* spp. Isolated from Camel in North Western Coastal Area of Egypt

A Thesis presented

By

Marwa Fawzy ALI ALI El HELW

B. V. Sc., Faculty of Veterinary medicine

Cairo University, 2000

M.V. Sc. of Microbiology

Cairo University, 2007

For the Degree of Ph.D.V.Sc.

Microbiology (Bacteriology - Immunology - Mycology)

Under supervision of

Prof. Dr. Nashwa Abd-EL-Salam Ezz eldeen

Professor of Microbiology

Faculty of Veterinary Medicine

Cairo University

Ass.Prof. Mahmoud Dardiri Mohamed ElHareri

Assistant Professor of Microbiology

Faculty of Veterinary Medicine

Cairo University

Prof .Researcher/ Mohamed Ahmed El-Sayed Balata

Professor of Microbiology

Desert Research Centre

Researcher/ Amani Abdel-Nabi Hafez

Researcher of Microbiology

Desert Research Centre

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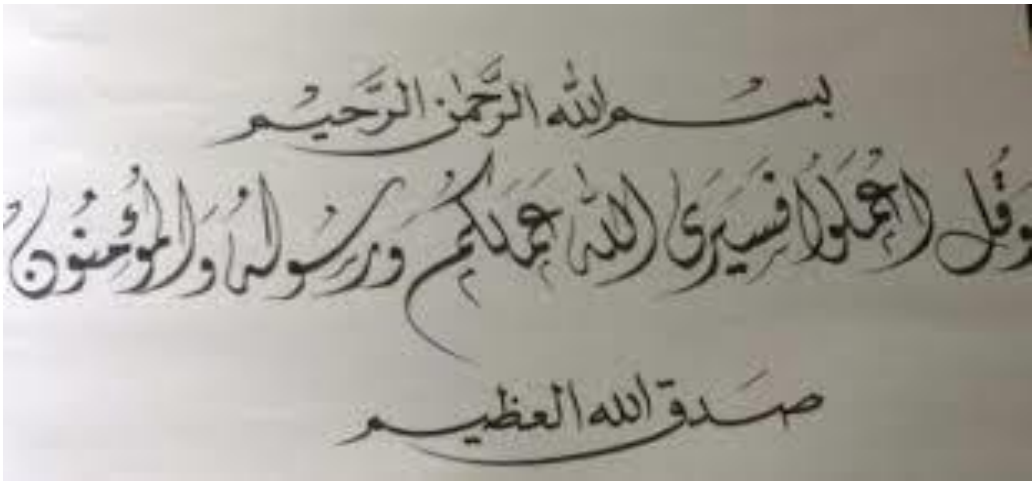

سوره التوبه رقم (١٠٥)

Supervision Sheet

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Supervision Committee

Prof. Dr. Nashwa Abd-EL-Salam Ezz eldeen

Professor of Microbiology

Faculty of Veterinary Medicine - Cairo University

Ass.Prof. Mahmoud Dardiri Mohamed ElHareri

Assistant Professor of Microbiology

Faculty of Veterinary Medicine - Cairo University

Prof .Researcher/ Mohamed Ahmed El-Sayed Balata

Professor of Microbiology -Desert Research Centre

Researcher/ Amani Abdel-Nabi Hafez

Researcher of Microbiology- Desert Research Centre

ABSTRACT

Faculty of Veterinary Medicine

Cairo University

Department of Microbiology

Name : Marwa Fawzy

Nationality : Egyptian

Birth date : 23/7/1978

Place of birth : El-Sharkia

Degree : PhD

Specification : Microbology (Bacteriology, Immunology and Mycology)

Supervisors : Prof. Dr. Nashwa Abd-EL-Salam Ezz eldeen

Ass. Prof.Dr. Mahmoud Dardiri Mohamed ElHareri

Prof .Researcher/ Mohamed Ahmed El-Sayed Balata

Researcher/ Amani Abdel-Nabi Hafez

Thesis title: Phenotypic and Genotypic Characterization of *Salmonella* spp. Isolated from Camel in North Western Coastal Area of Egypt.

This study was applied on 284 samples of swabs, fecal samples and organs which were collected from living & slaughtered dromederies camels in north western coastal area of Egypt. Bacteriological and biochemical tests were applied on them, 26 samples were positive to *Salmonella* . The results of VITEK classified them into 22 field isolates of *salmonella spp*. and 4 of them were *Salmonella enteric ssp diarizonae*. The 26 isolates showed positive band of *inv*A gene.12 of them were positive to *spv*A gene of *S.* Entritidis and 10 of them positive to *fli*C gene of *S.*Typhimurium*.* All 26 isolates were resistant to spiramycin (100%) & sensitive to ciprofloxacin, gentamicin, and amoxicillin/clavulinic. It is obvious not all resistant isolates carry the resistant gene of tetracycline *tet*A and β-lactam bla_{TEM} & bla_{SHV} & vice versa.SDS explained that the mol.weight of bands were closely related with variable heterogenous banding profile. The analysis of 16s rRNA gene of 11 isolates showed 100% similarity between 3 isolates of the same origin ,*S*. Entritidis and with one samples of *S*.Typhimurium while the percentage of divergence was 0.2- 0.4%.

DEDICATION

To

My Parents

My Sister and Brother

My Husband

My Son and Daughter

ACKNOWLEDGMENT

I am greatly indebted in all my work and success to our merciful "Allah"

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CONTENTES

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