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

A Thesis presented

By

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

Microbiology (Bacteriology - Immunology - Mycology)

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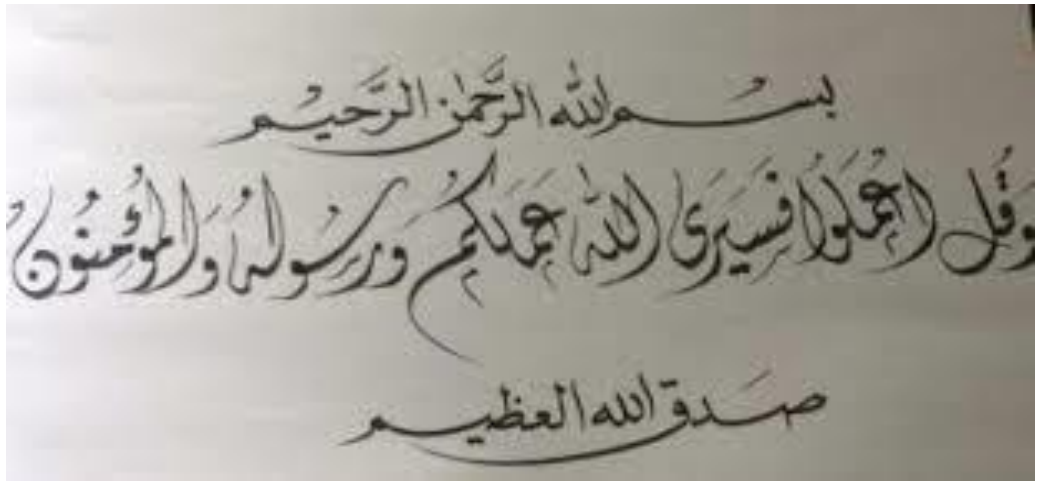
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سوره التوبه رقم (١٠٥)

Supervision Sheet

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ABSTRACT

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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 *invA* gene.12 of them were positive to *spvA* gene of *S. Entritidis* and 10 of them positive to *flhC* 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 *tetA* 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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