



Dissertation abstract

Central library

Faculty: <i>Veterinary Medicine</i>	Department: <i>Food Hygiene and control (Milk Hygiene)</i>	Call No. : 28 \ 3 \ 2007
Author: AL-shimaa Abd EL-tawab EL-ghamry EL-dyasety	Degree: M.V.Sc	Date: 28 \ 3 \ 2007
Title : Occurrence and behaviour of <i>Pseudomonas</i> in raw milk and butter		

Dissertation abstract

A total of one hundred random samples of raw milk and butter (50 samples of each) were collected from different localities in El-Dakhalia Governorate to be examined for the occurrence of *Pseudomonas* spp. using a *Pseudomonas* selective medium, to study the lipolytic and proteolytic activities of *Pseudomonas* strains, and to study antibiotic sensitivity of isolated *Ps. aeruginosa* strains. *Pseudomonas* spp. count in raw milk was ranged from 10^2 to 1.2×10^6 with a mean value of 2.6×10^5 cfu/ml. while in butter ranged from 2×10 to 2.4×10^4 with a mean value 1.3×10^3 cfu/ml. *Pseudomonas* strains recovered from examined raw milk samples were *Ps. fluorescens*, *Ps. aeruginosa*, *Ps. putida*, *Ps. Frag*, *Ps. capacia* and *Ps. alcaligenes*. While in butter samples were *Ps. Fragi*, *Ps. Fluorescens* and *Ps. aeruginosa*

Of 85 isolated *Pseudomonas* spp. from raw milk samples, 74 *Pseudomonas* strains were showed proteolytic activity when plated on skim milk agar. All *Pseudomonas* isolated from butter samples were showed proteolytic activity. 64 *Pseudomonas* strains were showed lipolytic activity using Victoria blue butter fat agar in raw milk while in butter 8 of 9 isolates showed lipolytic activity.

The antibiogram of the isolated *Ps. aeruginosa* from raw milk and butter samples revealed that all tested *Ps. aeruginosa* strains were resisted to all the following antibiotics, Streptomycin; Ampicillin; Oxytetracyclin; Neomycin; Enrofloxacin; Amoxicillin and Erythromycin. While these isolates were sensitive to Gentamycin; Kanamycin; Ciprofloxacin and Colistin

Key Words: pseudomona *SPP* –proteolytic -lipolytic activity-.PSM -raw milk-butter-