



Ain Shams University
Faculty of Pharmacy
Microbiology & Immunology Dept.

**Inactivation of *Pseudomonas aeruginosa*
quorum sensing signals by some soil
bacterial isolates**

A Thesis

Submitted in Partial Fulfillment of the Requirements for
the

**Master's Degree
In
Pharmaceutical Sciences
(Microbiology and Immunology)**

By

Masarra Mohammad Abo-el-soud Sakr

Bachelor of Pharmaceutical Sciences,
Faculty of Pharmacy, Ain Shams University, 2006

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Under Supervision of

Prof. Dr. Nadia A. El-Haleem Hassouna, PhD

Professor of Microbiology and Immunology,

Faculty of Pharmacy, Ain Shams University

Prof. Dr. Mohammad Mabrouk Aboulwafa, PhD

Professor of Microbiology and Immunology

Vice Dean for Community Service and Environmental

Development,

Faculty of Pharmacy, Ain Shams University

Dr. Khaled Mohamed Anwar Aboshanab, PhD

Assistant Professor and Acting Head of Microbiology and

Immunology Department

Faculty of Pharmacy, Ain Shams University

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وآخر دعوانا أن الحمد لله رب العالمين.

Masarra Mohammad Sakr

List of Abbreviations

Abbreviation	Definition
AHL	Acyl homoersine lactone
Asp	Aspartate
ATCC	American Type Culture Collection
BHL	Butyryl homoserine lactone
C4-HSL	Butyryl homoserine lactone
C6-HSL	Hexanoyl homoserine lactone
C-7 HSL	Heptanoyl homoserine lactone
C-8 HSL	Octanoyl homoserine lactone
Dil 10	10 fold culture dilution
EDTA	Ethylene diamnine terta-acetic acid
HHL	Hexanoyl homoserine lactone
His	Histidine
HSL	Homoserine lactone
LB	Lauria Bertani
ORF	Open Reading Frame
QMEAN	Qualitative model energy analysis
QS	Quorum sensing
Rf	Retardation factor
RNase	Ribonuclease
SDS	Sodium dodecyl sulphate
SET	Sodium chloride-EDTA-Tris buffer
TAE	Tris-Acetic acid-EDTA buffer
TE	Tris-EDTA buffer
TLC	Thin Layer Chromatography
Tyr	Tyrosine
Undil	Undiluted culture
YMG	Yeast extract-Malt extract-Glucose

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