



Ain Shams University



Faculty of Science
Microbiology Department

ROLE OF BIOLOGICAL TREATMENT OF WASTEWATER IN REMOVAL OF ANTIBIOTIC RESISTANT BACTERIA

THESIS

**For The Degree of Doctor of Philosophy in
Science, (Microbiology)**

By

Salwa Samir Mohamed Ebrahim

B.Sc. Microbiology (2003)

M. Sc. Microbiology (2010)

**Faculty of Science
Ain Shams University
2018**



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DEDICATION

*I would like to dedicate this work to
whom beats my heart with their presence in
my life ; to my father, my mother, my lovely
husband and my children (Adhm, Anas,
Aseel), for their patience, help and for all the
support they lovely offered along the period
of my post graduation.*

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CONTENTS

Subject	Page
LIST OF TABLES.....	i
LIST OF FIGURES.....	v
LIST OF ABBRIVIATIONS.....	viii
ABSTRACT.....	xi
I. INTRODUCTION.....	1
II. LITERATURE REVIEW.....	5
1. Risks of Frequent Use of Antibiotics.....	5
2. Antibiotic Resistance Crisis Management.....	9
3. Antibiotic Resistance Risk in Egypt.....	11
4. Antibiotics Resistance Among Fecal Indicator Bacteria and Environmental Pathogens.....	12
4.1. Resistance in fecal indicator bacteria.....	13
4.2. Resistance in bacterial pathogen.....	16
5. Antibiotic Resistant Bacteria (ARB) in Different Aquatic Environment.....	20
5.1. ARB in domestic wastewater treatment plants (DWTP).....	20
5.2. Antibiotic resistant bacteria in hospital wastewater.....	22
5.3. Antibiotic resistant bacteria in surface water.....	25
6. Wastewater Treatment Process.....	27
7. Role of Wastewater Treatment Process in Elimination of ARB..	29
8. Mode of Action of Antibiotics on the Bacterial Cell.....	34
8.1. Interference with nucleic acid synthesis.....	34
8.2. Disruptions of cell wall synthesis.....	34
8.3. Inhibition of metabolic pathway.....	35
8.4. Inhibition of protein synthesis.....	35

8.5. Disorganization of the cell membrane.....	35
9. Antibiotic Resistance Mechanisms.....	36
9. 1. Biochemical aspects of antibiotic resistance.....	36
9. 1.1. Antibiotic inactivation.....	36
9. 1.1.1. Antibiotic inactivation by hydrolysis.....	37
9. 1.1.2. Antibiotic inactivation by redox mechanism.....	37
9. 1.1.3. Antibiotic inactivation by group transfer.....	37
9. 1. 2. Target (bacteria) modification.....	38
9. 1. 2.1. DNA synthesis disorder.....	38
9. 1.2.2. Protein synthesis interference.....	38
9. 1.2.3. Peptidoglycan structure disorder.....	39
9. 1.2.4. Outer membrane permeability.....	39
9. 1.2.5. Efflux pumps.....	39
9. 2. Genetic aspects of antibiotic resistance.....	40
9. 2.1. Genetic transformation.....	41
9. 2.2. Genetic conjugation.....	41
9. 2.3. Genetic transduction.....	41
10. Classes of Antibiotics.....	42
11. Determination of ARB in Aquatic Environments.....	47
12. Detection of Antibiotic Resistance Genes.....	48
13. Detection Methods of Antibiotic Residues	51
14. Disinfection Effect on ARB.....	52
III: MATERIALS AND METHODS.....	54
1. Sampling Sites and Procedures.....	54
1.1. Domestic wastewater samples.....	54
1. 2. Surface water samples.....	55
1.3. Hospital wastewater samples.....	56
2. Bacteriological Examination.....	56

2.1. Isolation and identification of bacterial indicators and some pathogenic bacteria.....	56
2.1.1. Isolation and identification of <i>Escherichia coli</i> according to MacFaddin, (1985).....	57
2. 1.1.1. Presumptive test.....	57
2. 1.1.2. Confirmed test.....	57
2.1.1.2. a. Indole test	58
2.1.1.2. b. MR-VP test	58
2.1.1.2. c. Citrate utilization test	59
2.1. 2. Isolation and identification of <i>Enterococci</i> spp. according to APHA, (2012).....	59
2.1. 2.1. Presumptive test.....	59
2.1. 2.2. Confirmed test.....	59
2.1. 2.2. a. Catalase and Gram stain	60
2. 1.2.2. b. Growth at elevated temperature and salinity	60
2. 1.2.2. c. Pyruvate test	61
2.1.3. Isolation and identification of <i>Salmonella</i> Typhimurium according to APHA, (2012).....	61
2.1. 3.1. Presumptive test.....	61
2.1. 3.2. Confirmed test.....	62
2.1.4. Isolation and identification of <i>Staphylococcus aureus</i> according to Zangerl and Asperger, (2003).....	63
2.1. 4.1. Presumptive test.....	63
2.1. 4.2. Confirmed test.....	64
2.2. Verification of bacterial isolates using BIOLOG GEN III.....	64
3. Antibiotic Susceptibility Test (Kirby-Bauer Assay).....	66
4. Genetic Transformation Experiment.....	68

5. Enumeration of Total Heterotrophic Bacteria and Antibiotic Resistant Bacteria.....	69
6. Detection of Various Antibiotic Resistant Genes (ARGs) Using PCR Technique.....	71
6. 1. DNA extraction.....	72
6.1.1. Sample Preparation.....	72
6.1.2. Lysis.....	72
6.1.3. DNA Binding.....	73
6.1.4. Wash.....	73
6.1.5. Elution.....	74
6.2. Amplification step; polymerase chain reaction (PCR).....	77
7. Quantification of Antibiotics Residues.....	78
7.1. Extraction procedure.....	79
8. Chlorination of Sensitive and Resistant Isolates.....	79
8.1. Chlorine water preparation.....	79
8.2. Determination of Chlorine concentration.....	80
8.3. Determination of chlorine breakpoint and residual chlorine...	81
9. Data Analysis and Statistical Analysis.....	82
9.1. Data analysis.....	82
9.1. 1. Antibiotic susceptibility test.....	82
9.1.2. Antibiotic resistance percentage.....	83
9.1.3. Multiple antibiotics resistance (MAR) index.....	83
9.1.4. Removal rate of ARB in ZWWTP.....	84
9.2. Statistical analysis.....	84
10. Media and Reagents	85
10. A. MEDIA.....	85
10. B. REAGENTS.....	95

IV: RESULTS.....	100
A. Domestic Wastewater Samples (ZWWTP).....	107
A.1. Determination of Fecal Bacterial Indicators and Some Pathogenic Bacteria and Their Antibigrams in ZWWTP.....	108
A. 1.1. Determination of <i>E. coli</i> in ZWWTP.....	108
A. 1.2. Antibioframe of <i>E. coli</i> isolated from ZWWTP.....	110
A.1.3. Determination of <i>Enterococci</i> spp. in ZWWTP.....	114
A.1.4. Antibioframe of <i>Enterococcus faecalis</i> isolated from ZWWTP.....	115
A.1.5. Determination of <i>Salmonella</i> Typhimurium in ZWWTP.....	120
A.1.6. Antibioframe of <i>Salmonella</i> Typhimurium isolated from ZWWTP.....	122
A.1.7. Determination of <i>Staphylococcus aureus</i> in ZWWTP.....	125
A.1.8. Antibioframe of <i>Staphylococcus aureus</i> isolated from ZWWTP.....	127
A.1.9. Multiple Antibiotic Resistance (MAR- index) of bacterial indicators and pathogens isolated from ZWWTP.....	132
A. 2. Genetic Transformation.....	134
A. 3. Antibiotic Resistant Genes (ARGs) in bacterial isolates isolated from ZWWTP.....	136
A.4. Prevalence of Total Heterotrophic Bacteria and Heterotrophic Antibiotic Resistant Bacteria in ZWWTP.....	140
A.4.1.Relation between ARB proliferation and biological treatment stages of ZWWTP.....	152
A.4.2.The efficiency of biological treatment process in the removal of THBC and HARB.....	153