



Faculty of Education
Department of Biological
Sciences & Geology

*Production and Characterization of Silver
Nanoparticles using some Soil
Microorganisms*

Ph.D. Thesis

SUBMITTED IN PARTIAL FULFILLMENT FOR THE DEGREE OF Ph.D. IN
PREPARATION OF SCIENCE TEACHER

(BOTANY)

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*We apologize for any errors we have
inadvertently allowed into print*

This dissertation has not been previously submitted for any degree, at this or any other university. The references being checked whenever possible show the extent to which I have availed myself of the work of other authors.

Wafaa Abdallah

To

My Husband and my Son

The essence of my life



Acknowledgement

ACKNOWLEDGEMENT

First of all, cordial thanks due to **ALLAH** who enabled me to overcome all the problems, which faced me throughout the work.

It is a great honor to express my deepest gratitude and appreciation to **Dr. Mohamed Ghareib Ibrahim, Professor of Microbiology, Faculty of Education, Ain Shams University**, for suggesting the point of this study, constant supervision, valuable help during writing, continuous encouragement and critical discussions.

Sincere gratitude is due to **Dr. Mona Mostafa Saif, Assistant professor of inorganic chemistry, Faculty of Education, Ain Shams University** for sharing in supervision and continuous encouragement throughout the work.

Sincere gratitude is also due to **Dr. Medhat Ahmed Abo Tahon, lecturer of Microbiology, Faculty of Education, Ain Shams University** for sharing in supervision, helping during practical work and continuous encouragement throughout the work.

Acknowledgement

So many great thanks to **Prof. Dr. Mohammed Abd EL-aziz Fouad, Chairman of Department of Biological Sciences and Geology, Faculty of Education, Ain Shams University**, for his continuous encouragement and providing facilities during the practical work.

I feel thankful to **Prof. Dr. Naglaa Zaki El-alfy, Ex-Chairman of Department of Biological Sciences and Geology, Faculty of Education, Ain Shams University**, for her continuous encouragement and providing facilities during the practical work.

Many thanks to my colleagues and all the members of Biological Sciences and Geology Department for their kind help and encouragement.

A word of thanks, a word of praise, for my family, for being so great in many ways that pushed me forward.

CONTENTS

CONTENTS

Content	Page
List of abbreviations	vi
List of tables	viii
List of figures	x
Abstract	1
Preface	4
Historical Review	7
Materials & Methods	29
1- Microorganisms	29
2- Chemicals and glass wares	29
3- Growth media	30
4- Cultivation	31
a- <i>Cultivation of bacteria</i>	31
b- <i>Cultivation of fungi</i>	31
5- Extracellular biosynthesis of AgNPs	32
a- <i>Using the Culture supernatant (CS)</i>	32
b- <i>Using Cell-free filtrate (CFF)</i>	32
c- <i>Using the washed biomass</i>	32
6- Optimization of the reaction conditions	33
7- Characterization of AgNPs	33
a- <i>Visual observations</i>	33
b- <i>UV-Vis spectroscopy</i>	33

CONTENTS

Content	Page
c- High Resolution-Transmission Electron Microscopy (HR-TEM)	34
d- X-ray diffraction (XRD)	35
e- Energy dispersive X-rays (EDX)	35
f- Dynamic light scattering (DLS)	35
g- Zeta potential measurement	36
h- Fourier Transform Infrared (FTIR) Spectroscopy	36
i- Fluorescence emission spectrum	36
8- Biochemical assays	37
a- Nitrate reductase (EC 1.6.6.4) assay	37
b- Effect of temperature and pH on enzyme activity and stability	39
9- Antibacterial activity of the produced AgNPs	40
Experimental Results	41
CHAPTER I Screening Of Some Soil Microorganisms As Possible Sources For The Biosynthesis Of Extracellular Silver Nanoparticles	41

CONTENTS

Content	Page
C H A P T E R II	
Biosynthesis And Characterization Of Extracellular Silver Nanoparticles Using Culture Supernatant From The Fungus <i>Cunninghamella Phaeospora</i>	59
First: Biosynthesis of AgNPs:	59
1- Factors affecting the biosynthesis reaction	61
<i>a- Reaction temperature</i>	61
<i>b- pH values of the reaction mixture</i>	64
<i>c- Concentrations of AgNO₃</i>	66
<i>d- Activity and stability of NR enzyme</i>	68
2- Environmental conditions controlling production of the CS	70
3- Other mechanistic aspects	72
<i>a- Fourier transform infrared (FTIR)</i>	72
<i>b- Fluorescence emission spectrum of CS</i>	73
Second: Characterization of the produced AgNPs	74

CONTENTS

Content	Page
C H A P T E R III	
Biosynthesis And Characterization Of Extracellular Silver Nanoparticles Using Cell Free Filtrate From The Fungus <i>Emercilla Quadrilineata</i>	80
First: Biosynthesis of AgNPs:	80
1- Factors affecting the biosynthesis reaction	83
<i>a- Reaction temperature</i>	83
<i>b- pH values of the reaction mixture</i>	86
<i>c- Concentrations of AgNO₃</i>	88
<i>d- Activity and stability of NR enzyme</i>	90
2- Factors affecting formation and composition of the CFF	92
Second: Some Mechanistic Aspects:	94
<i>a- Fourier transform infrared (FTIR)</i>	94
<i>b- Fluorescence emission spectrum of CS</i>	95
Third: Characterization of the produced NPs	96

CONTENTS

Content	Page
C H A P T E R I V	
Antibacterial Activities Of The Produced Silver Nanoparticles	102
Discussion	108
Summary	125
References	134
Arabic summary	

LIST OF ABBREVIATIONS

Abbreviation	Meaning
μM	Micromolar
μm	Micrometer
μmol	Micromole
AgNO₃	Silver Nitrate
AgNPs	Silver Nanoparticles
Au	Absorbance unit
AUMC	Assuit University Mycological Center
CFF	Cell Free Filtrate
CS	Culture Supernatant
DLS	Dynamic light scattering
EDX	Energy dispersive X-rays
FTIR	Fourier Transform Infrared
fcc	face centered cube
h	Hour
HR-TEM	High Resolution-Transmission Electron Microscopy
JCPDS	Joint Committee on Powder Diffraction Standards
keV	kilo-electron volt
KV	Kilo volt
LB	Luria broth
mA	Milliampere
MGYP	Malt Glucose Yeast Peptone
Min	Minute
mm	Millimeter
mM	Millimolar
mV	Milli-volt

List of abbreviations

Abbreviation	Meaning
NA	Nutrient agar
NB	Nutrient broth
NEED	N-(1-napthy) Ethelenediamine dihydrochloride
nm	Nanometer
nmol	Nanomole
NPs	Nanoparticles
NR	Nitrate Reductase
RPM	Revolutions per minute
SPR	Surface Plasmon Resonance
UV-Vis	Ultraviolet–visible
XRD	X-ray diffraction

LIST OF TABLES

Table no.	Title	Page
1-a.	Screening of some filamentous fungi for the biosynthesis of extracellular AgNPs	43
1-b.	Screening of some bacteria for the biosynthesis of extracellular AgNPs	44
2-a.	Formation of extracellular AgNPs by the three experimented fungi	49
2-b.	Formation of extracellular AgNPs using CS from the seven experimented bacteria	58
3.	Effect of reaction temperature on the biosynthesis of extracellular AgNPs using CS from <i>C. phaeospora</i>	64
4.	Effect of reaction pH values on the biosynthesis of extracellular AgNPs using CS from <i>C. phaeospora</i>	66
5.	Effect of reaction temperature on the biosynthesis of extracellular AgNPs using CFF from <i>E. quadrilineata</i>	86
6.	Effect of reaction pH values on the biosynthesis of extracellular AgNPs using CFF from <i>E. quadrilineata</i>	88