



شبكة المعلومات الجامعية
التوثيق الإلكتروني والميكرو فيلم

بسم الله الرحمن الرحيم



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شبكة المعلومات الجامعية التوثيق الإلكتروني والميكروفيلم



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جامعة عين شمس التوثيق الإلكتروني والميكروفيلم

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Pharmacognostical and Biological Investigation of *Pithecellobium dulce*, family Fabaceae (Leguminosae) cultivated in Egypt

A Thesis

Submitted for Partial Fulfillment of the Requirements for the

Master degree

In Pharmaceutical Science

(Pharmacognosy)

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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

وقل رب زدني علما

صدق الله العظيم



سورة طه - الآية (١١٤)



Acknowledgement

First, I am grateful to the Almighty Allah for establishing me to complete this work.

*I wish to express my deepest gratitude to **Prof. Dr. Abdel-Nasser Badawy Singab**, Professor of Pharmacognosy, Vice President of Ain Shams University for Research and Postgraduate Affairs and chairman of Drug Discovery and Development center, for his supervision, guidance, enthusiastic encouragement and useful critics of this research work. It is a great honor working under his supervision.*

*My deepest gratitude goes to **Prof. Dr. Safaa Ahmed EL-Moghazy**, Professor of Pharmacognosy, Vice Dean of Faculty of Pharmacy at Badr University in Cairo, for her time, supervision, guidance, enthusiastic encouragement, and useful critics of this research work. It is a great honor working under her supervision.*

*I would like to express my special appreciation and thanks to **Dr. Iriny Ayoub**, Associate Professor at Department of Pharmacognosy, Faculty of Pharmacy, Ain Shams University for her invaluable efforts, tireless guidance and for her patience and support to get this work into light.*

*I would like to give special thanks to **Prof. Dr. Mohamed Ahmed El-Shanawany**, Professor of Pharmacognosy, Dean of Faculty of Pharmacy at Badr University in Cairo, for his support and motivation.*

*My sincere thanks also go to drug discovery and development center specially **Dr. Ahmed Essam**, Lecturer of Pharmacognosy at Ain Shams University for offering me all facilities, support, courage and follow up to give this work the best.*

*I would like to give special thanks to **Dr. Fadia Youssef**, Associate Professor at Pharmacognosy Department, Faculty of Pharmacy, Ain Shams University for her effort and support on taking botanical photographs of T.S in the botanical study.*

*My thanks extended also to all my colleagues specially in my Department of Pharmacognosy at Faculty of Pharmacy, Badr University in Cairo and Ain Shams University who helped and supported me through this work. Special thanks for my colleague **Mahmoud EL-Hasab** for his support in docking analysis.*

*I would like to dedicate this work to my family specially my lovely father **Prof. Dr. Saeed Kotb Ismaiel**, Professor of Pharmacognosy, Faculty of Pharmacy at AL-Azhar University, my lovely husband **Dr. Abdelhaleem Abubakr**, my son, **Anas**, whom without their sincere support, pushing me forward, this work would not have ever been completed. They have been a constant source of love, concern, support, and strength throughout my whole life. I deeply thank my lovely sisters, **Fatma and Salma** for their unconditional love, support, encouragement and never-ending tolerance and patience. My heartfelt thanks.*

*Last but not least, i would like to dedicate this work to my belated mother **Dr. Sahar Mohamed Abdelkader** who would have been so proud.*

*Sara Saeed Kotb
December, 2020*

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LIST OF ABBREVIATIONS

Abbreviation	Full Term
ALA	Alanine
bp	Base pair as DNA molecular-weight size marker
CDCl ₃	Deuterated chloroform
CD ₃ OD	Deuterated methanol
¹³ C-NMR	Carbon-13 nuclear magnetic resonance
¹ H- ¹ H COSY	Bidimensional proton/proton correlation spectroscopy
DCM	Dichloromethane
DMEM	Dulbecco's Modified Eagle's Medium
DNA	Deoxyribonucleic acid
DPPH	2,2-diphenyl-1-picryl-hydrazyl-hydrate
EDTA	Ethylenediaminetetraacetic acid
ESI	Electrospray ionization
eV	Electron volt
GC-MS	Gas Chromatography-Mass Spectrometry
ΔG	Gibbs free energy
Hep-G2	Hepatocellular carcinoma cell line
HIS	Histidine
¹ H-NMR	Proton nuclear magnetic resonance
HSQC	Heteronuclear single quantum coherence or heteronuclear single quantum correlation
IC ₅₀	The half maximal inhibitory concentration
APL	Aqueous extract of <i>Pithecellobium dulce</i> leaf
APB	Aqueous extract of <i>Pithecellobium dulce</i> bark
TPL	Total methanol extract of <i>Pithecellobium dulce</i> leaf
TPB	Total methanol extract of <i>Pithecellobium dulce</i> bark
HPL	<i>N</i> -hexane extract of <i>Pithecellobium dulce</i> leaf
HPB	<i>N</i> -hexane extract of <i>Pithecellobium dulce</i> bark
DPL	Dichloromethane extract of <i>Pithecellobium dulce</i> leaf

Abbreviation	Full Term
DPB	Dichloromethane extract of <i>Pithecellobium dulce</i> bark
BPL	<i>N</i> -butanol extract of <i>Pithecellobium dulce</i> leaf
BPB	<i>N</i> -butanol extract of <i>Pithecellobium dulce</i> bark
EPL	Ethyl acetate extract of <i>Pithecellobium dulce</i> leaf
EPB	Ethyl acetate extract of <i>Pithecellobium dulce</i> bark
Kcal/mol	Kilocalorie per mole
LC/MS	Liquid Chromatography / Mass Spectrometry
MIC	Minimum inhibitory concentration
mL	Milliliter
MOE	Molecular Operating Environment docking software
MS	Mass spectrometry
MTT	3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyltetrazolium Bromide
NCBI	National Center for Biotechnology Information
NIST	National Institute of Standards and Technology
NMR	Nuclear magnetic resonance
PCR	Polymerase chain reaction
PHE	Phenylalanine
ppm	Parts per million
RAPD	Random Amplification of Polymorphic DNA
RCMB	Regional Center for Mycology and Biotechnology
RI	Retention index
R_t	Retention time
SD	Standard deviation
SDS	Sodium dodecyl sulfate
SER	Serine
TRIS	Tris(hydroxymethyl)aminomethane
Tris-HCl	Trisaminomethane hydrochloride
2D	Two-dimensional
UPLC	Ultra-Performance Liquid Chromatography

Abbreviation	Full Term
<i>d</i>	Doublet
<i>dd</i>	Doublet of doublets
<i>J</i> value	Coupling constant
DMSO-<i>d</i>₆	Deuterated dimethyl sulfoxide
ED₅₀	Effective dose-dose at which 50% of the desired effect be achieved
ESI-MS	Electron Spray Ionization Mass Spectrometry
<i>m/z</i>	Mass to charge ratio
HCT-116	Colon cancer cell line
<i>R_f</i>	Retention factor
RPMI	Roswell Park Memorial Institute -Cell culture medium
<i>s</i>	Singlet
TLC	Thin Layer Chromatography
TMS	Tetramethyl silane
<i>t</i>	Triplet
UV	Ultraviolet
Å	Angstrom
λ	Wavelength
GAE	Gallic acid equivalent
CE	Catechin equivalent

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