Ain Shams University
Faculty of women
For Arts, Science and Education

Hypoglycemic effect and antioxidant of some Egyptian medicinal plant extracts

A Thesis by

Lina Hossam El_Din Zaki

B.Sc. in Botany and Chemistry (2008)

Faculty of science, Ain Shams University

Thesis Submitted as

A Partial Fulfillment of the Requirements of

Master Degree in Botany (Physiology)

To

Botany department

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" وَقُل رَّبِّ زِدْنِي عِلْمًا "

(سورة طه آيه ١١٤)

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My Mother,

My Husband,

My Brothers,

My Sister,

For their patience and help.

This thesis has not been previously submitted for any degree at this or any other university

Signature

Lina Hossam El-Din Zaki

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LIST OF ABBREVIATIONS

Abbreviation	Complete name
NMR	Nuclear magnetic resonance
^{13}C NMR	Carbon -13 nuclear magnetic resonance
^{1}H NMR	Proton nuclear magnetic resonance
ALT	Alanine transferase
ANOVA	Analysis of variance
AST	Aspartate transferase
BVR	*Beta vulgaris rubra*
CAT	Catalase
Conc.	Concentrated
dl	deciliter
g.	Gram
GC/MS	Gas chromatography/mass spectroscopy
Glib.	Glibenclamide
GSH	Glutathione reduced
HDL	High density lipoprotein
HDL-C	High density lipoprotein -cholesterol
HPLC	High performance liquid chromatography
h.	Hour
HRS	*Hibiscus rosa sinenss*
L.	Linnaeus
LDL	Low density lipoprotein
LDL-C	Low density lipoprotein -cholesterol
LSD	Least significant difference
MDA	Malondialdehyde
mg/kg bw.	Milligram per kilogram body weight