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DECLARATION BY THE CANDIDATE

I declare that the thesis entitled “**Pharmacognostical, Phytochemical, Pharmacological and Antimicrobial Studies on *Carmona retusa* (Vahl) Masam.**” submitted by me for the degree of **Doctor of Philosophy (Ph. D.,)** is the record of bonafide research work done during the period from September 2011 to August 2015 under the guidance of **Dr. S. KARPAGAM, Associate Professor,** Department of Botany, Queen Mary's College, Chennai-600 004 and that no part of the thesis has previously formed the basis for the award of any Degree, Diploma, Associateship, Fellowship or other similar Titles in this University or any other University or other similar Institution of Higher Learning.

(S. MAGESWARI)

Place: Chennai - 4

Date:

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ABBREVIATIONS

%	:	Percentage
°C	:	Degree Centigrade
µl	:	Microliter
µm	:	Micrometer
mm	:	Milimeter
cfu	:	Colony forming units
cm	:	Centimeter
gms	:	Grams
hr	:	Hour
hrs	:	Hours
mA	:	Milli ampere
mg	:	Milligram
ml	:	Milliliter
mM		Milli molar
mm	:	Milli meter
ng	:	Nano gram
nm	:	Nano meter
pH	:	Hydrogen ion concentration
pMole	:	Pica moles
ppb	:	Parts per billion
ppm	:	Parts per million
AFLA	:	Aflatoxin
As	:	Arsenic
Cd	:	Cadmium
CO ₂	:	Carbondioxide
Col/ml	:	Colonies per milliliter
Conc.	:	Concentrated
DMSO	:	Dimethyl sulfoxide

EDTA	:	Ethylene diamine tetra acetic acid
FAA	:	Formalin : acetic acid : alcohol
GC-MS	:	Gas chromatography mass spectrometry
H ₂ SO ₄	:	Sulphuric acid
HCL	:	Hydrochloric acid
Hg	:	Mercury
HNO ₃	:	Nitric acid
HPTLC	:	High performance thin layer liquid chromatography
KBr	:	Potassium bromide
Kg	:	Kilogram
TLS	:	Tangential Longitudinal Section
RLS		Radial Longitudinal Section
LS	:	Longitudinal section
M	:	Molar
N	:	Normality
NaCl	:	Sodium chloride
NCIM	:	National collection of industrial microorganisms
Pb	:	Lead
<i>R_f</i>	:	Retention factor
SD	:	Standard deviation
SEM	:	Standard error mean
Spp.	:	Species
TBA	:	Tertiary butyl alcohol
TLC	:	Thin layer chromatography
TS	:	Transverse section
U	:	Units
UV	:	Ultra -violet
V	:	Volts
Vis	:	Visible

