

*Biochemical, Toxicological and Mutagenic  
Studies on a Natural Flavouring Substance  
From the Family Labiatae*

Thesis  
Submitted

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***I dedicate this Thesis to :***

***my Parents,***

***my Wife.***



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## LIST OF ABBREVIATIONS

A/G	Albumin to globulin ratio
ALP	Alkaline phosphatase
ALT	Alanine aminotransferase
AST	Aspartate aminotransferase
BC	Betacarotene
BCG	Bromocresol green
BHA	Butylated hydroxyanisol
BHT	Butylated hydroxytoluene
BP	Benzo (a) pyrene
B.W.	Body weight
CCl <sub>4</sub>	Carbon tetrachloride
CHE	Cholinesterase
γGT	γ-Glutamyl transpeptidase
Gr	Group
Gr.N.C.	Group normal control
G-6-Pase	Glucose-6-phosphatase
GRAS	Generally Recognized As Safe
GSH	Reduced glutathione
H.E.	Haemoxilin-eosin
H <sub>2</sub> O <sub>2</sub>	Hydrogen peroxide
HPLC	High performance liquid chromatography
i.p.	Intrapretonial
LD <sub>50</sub>	Median lethal dose
LD <sub>100</sub>	Lethal dose
LDH	Lactate dehydrogenase
MPO	Methoxypsoralen
MPCE	Micronucleated polychromatic erythrocytes
M.W.	Molecular weight
NCE	Normochromatic erythrocytes
N.S.	Non significant
5NT	5-Nucleotidase

PCE	Polychromatic erythrocytes
PG	Propylgallate
Pi	Inorganic phosphate
P value	Probability
S.D.	Standard deviation
SDH	Sorbitol dehydrogenase
S.E.	Standard error
SOD	Superoxide dismutase
RBCs	Red blood corpuscles
ROS	Reactive oxygen species
r.p.m.	Revolution per minute
TBA	Thiobarbituric acid
TBHQ	Tertiary butyl hydroquinone
tBOOH	Tertiary butyl hydroperoxide
TCA	Trichloroacetic acid
TLC	Thin layer chromatography

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