

LIST OF ABBREVIATIONS AND SYMBOLS

Abbreviation/symbol	Meaning
AGE	: advanced glycation end products
ANOVA	: analysis of variance
AOAC	: Association of Official Analytical Chemists
AOPP	: advanced oxidation protein product
BW	: body weight
cfu	: colony forming units
CHD	: coronary heart disease
cm	: centimetre
CUPRAC	: cupper reducing antioxidant capacity
CVD	: cardiovascular disease
DNA	: deoxyribonucleic acid
DOX	: producing effects of doxorubicin
DR3, DR4	: sequences of protein in gene
ECM	: extracellular matrix
EGF	: epidermal growth factor
GAD antibodies	: glutamic Acid Decarboxylase antibodies
GDM	: gestational diabetes mellitus
GLP	: <i>Ganoderma lucidum</i> peptides
GLPG	: <i>Ganoderma lucidum</i> proteoglycan
GL-PS	: <i>Ganoderma lucidum</i> polysaccharides
Gpx	: glutathione peroxidase
GSH	: glutathion

h	: hour
HCl	: hydrochloric acid
HNO ₂	: nitrous oxide
HOCl	: hydrochlorous acid
HPLC	: high performance liquid chromatography
H & E	: hematoxylin and eosin staining
HSA	: human serum albumin
H ₂ O ₂	: hydrogen peroxide
IEC-6	: Intestinal epithelial cell line
IGT	: impaired glucose tolerance
kDa	: kilodaltons
LADA	: latent autoimmune diabetes of adulthood
LOOHs	: lipid hydroperoxides
MDA	: Malondialdehyde
NF-1	: neurofibromatosis
mm	: millimeter
mmol/L	: millimoles per litre
MMPs	: matrix metalloproteinases
MPI	: 1-methyl-2-phenylindole
MT	: masson trichrome staining
NO	: nitric oxide
NO ²⁻	: nitrogen dioxide
OH ⁻	: hydroxyl
ONOO ⁻	: peroxynitrite

OOH, ROO	: peroxy radicals
O ²⁻	: superoxide
PBS	: phosphate buffer saline
PDGF	: platelet derived growth factor
PEPCK	: phosphoenol-pyruvate carboxykinase
PKS	: polysaccharide krestin
PPG	: proprietary glucan
ppm	: part per million
PUFA	: polyunsaturated fatty acids
RONOO	: alkyl peroxy nitrates
ROS	: reactive oxygen species
SD	: <i>Sprague Dawley</i>
SEM	: standard error mean
SKG-3	: saccharomyces genome protein of unknown function
SOD	: Superoxide dismutase
sp.	: species
spp.	: indicates several species
SSG	: Scleroglucan
STZ	: streptozotocin
TBARS	: thiobarbituric acid reactive substances
TEP	: Tetraethoxypropane
TGF	: transforming growth factor
T2DM	: Type-2 diabetes diseases
UV	: ultraviolet

VEGF	: vascular endothelial growth factor
v/v	: volume per volume
WGP	: Yeast whole β -glucan particle
w/w	: weight per weight
μ M	: micro molar