

LIST OF ABBREVIATIONS

%	=	Percent
xg	=	Relative centrifugal force
°C	=	Degree celsius
μ	=	Micro
ABTS	=	2,2'-azino-bis (3-ethylbenzthiazoline-6-sulphonic acid)
DPPH	=	1,1-diphenyl-2-picrylhydrazyl
AMPs	=	Antimicrobial Peptides
B cell	=	B lymphocyte
CAT	=	Catalase
CC	=	Chemokine (C-C motif)
cDNA	=	Complementary DNA
CXC	=	Chemokine (C-X-C motif)
DBPH	=	Duck blood Protein hydrolysates
DEPC	=	Diethyl pyrocarbonate
DNA	=	Deoxyribonucleic acid
EDTA	=	Ethylenediaminetetraacetic acid
hr	=	Hour
Ig	=	Immunoglobulin
IgA	=	Immunoglobulin A
IL-1	=	Interleukin-1
IL-6	=	Interleukin-6
m	=	Milli
M	=	Molar
MAD	=	Malondialdehyde
min	=	Minute
mRNA	=	Messenger RNA
N.S	=	Not Available
NaCl	=	Sodium saline

LIST OF ABBREVIATIONS (Continued)

NLRs	=	NOD-like Receptors (Nucleotide-binding Oligomerization Domain-like Receptors)
OTUs	=	Operational Taxonomic Units
PAMPs	=	Pathogen-associated molecular patterns
PCR	=	Polymerase chain reaction
pH	=	Potential of hydrogen ion
PRRs	=	Pattern Recognition Receptors
q	=	Quantitative
qRT-PCR	=	Quantitative real-time PCR
RGR	=	Relative growth rate
RNA	=	Ribonucleic acid
RNase	=	ribonuclease
ROS	=	Reactive oxygen species
rRNA	=	Ribosomal RNA
SCFAs	=	Short-Chain Fatty Acids
SD	=	Standard deviation
Seq	=	Sequencing
SR	=	Survival rate
SOD	=	Superoxide Dismutase
spp.	=	Species pluralis
SUT	=	Suranaree University of Technology
T cell	=	T lymphocyte
TLRs	=	Toll-like Receptors
TNF α	=	Tumor necrosis alpha
WGR	=	Weight gain
β -actin	=	Beta-actin
MHC	=	major histocompatibility complex
O ₂ ⁻	=	Superoxide anion
H ₂ O ₂	=	Hydrogen peroxide

LIST OF ABBREVIATIONS (Continued)

O ₂		molecular oxygen
Cu/Zn-SOD	=	Cytosolic
Mn-SOD	=	Mitochondria