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strain, $\Delta lac1$, $\Delta lac2$, $\Delta lac3$ and $\Delta arb2$ at difference incubation times



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LIST OF ABBREVIATIONS

AIDS	Acquired immunodeficiency syndrome
ANM	Aspergillus nidulans synthetic medium
bp	Base pair
$CD4^+$	Cluster of differentiation 4 ⁺
CFU	Colony forming unit
CO ₂	Carbon dioxide
DHN	Dihydroxynaphthalene
DNA	Deoxyribonucleic acid
EDTA	Ethylenediamine tetraacetic acid
ELISA	Enzyme-linked immunosorbent assay
et al.	And others
FBS	Fetal bovine serum
Fe ²⁺	Ferrous
Fe ³⁺	Ferric ion
g Copyr	gram by Chiang Mai University
G-CSF	Granulocyte colony-stimulating factor
GM-CSF	Granulocyte-macrophage colony stimulating factor
GMS	Grocott methenamine silver
H&E	Hematoxylin and eosin
H_2O_2	Hydrogen peroxide
H_2SO_4	Sulfuric acid

HIV	Human immunodeficiency virus
HSP	Heat shock protein
Ibs	Pounds
IFN-γ	Interferon gamma
IgG	Immunoglobulin G
IgM	Immunoglobulin M
IL-1β	Interleukin-1ß
IL-4	Interleukin-4
IL-6	Interleukin-6
IL-8	Interleukin-8
IL-10	Interleukin-10
IL-17A	Interleukin-17A
ITS	Internal transcribed spacer
kg	Kilogram
L	Liter 41 UNIVER
LA	Latex agglutination
mgadal	Milligram
MAb	Monoclonal antibody
MCP-1	Monocyte chemotactic protein-1
ml	Mililiter
mm	Millimeter
mM	Millimolar
Ν	Normality

NaCl	Sodium Chloride
NaOH	Sodium hydroxide
ng	Nanogram
(NH ₄) ₂ SO ₄	Ammonium sulfate
nm	Nanometer
NSS	Normal saline solution
O ₂	Oxygen
O2 ⁻	Superoxide radical anion
OD	Optical density
OH	Hydroxyl radicals
OsO4	Osmium Tetroxide
PAS	Periodic acid-Schiff stain
PBMC	Peripheral blood mononuclear cell
PBS	Phosphate buffered saline
PDA	Potato dextrose agar
PCR	Polymerase chain reaction
рН	Power of Hydronium
РМА	Phorbol myristate acetate
PMN	Polymorphonuclear leukocytes
rDNA	Ribosomal deoxyribonucleic acid
rRNA	Ribosomal ribonucleic acid
ROS	Reactive oxygen species
rpm	Revolution per minute

- Synthetic dextrose medium SD
- Sodium dodecyl sulfate SDS
- SEM Scanning electron microscopy
- SOD Superoxide dismutase enzyme
- Tetramethlybenzidine TMB
- Tumor necrosis factor-alpha TNF-α
- Ultraviolet UV
- Volume per volume v/v
- w/v



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LIST OF SYMBOLS

%	Percent
Δ	Delete mutation
°C	Degree Celsius
μg	Microgram
μΙ	Microliter
1 9	120012121
-Se	a land and
	AND AND
	AL THE S
	EL HULLAN
	CALL BEST
	TAT UNIVER
8.8	กอิ์มหลอิกตออัตเสียงใหม่
ada	กษาการและเตลเออกเมา
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