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ABBREVIATIONS AND SYMBOLS

%	Percent
λ_{\max}	Maximum wavelength
ACN	Acetonitrile
BHA	Butylated hydroxyanisole
BHT	Butylated hydroxytoluene
°C	Degree Celsius
CC	Column chromatography
CHCl ₃	Chloroform
cm	Centimeter
CS	Chitosan
DI water	Deionized distilled water
DMSO	Dimethylsulfoxide
d.nm	Diameter in nanometer
DS	Degrees of substitution
DSC	Differential Scanning Calorimeter
% EE	Percentage of entrapment efficiency
EC	Equivalent concentration
EtOAc	Ethyl acetate
EtOH	Ethanol
FRAP	Ferric reducing antioxidant power
FT-IR	Fourier transform infrared spectroscopy
g	Gram
GA	Gallic acid
h	Hour
¹ H-NMR	Proton nuclear magnetic resonance
HCl	Hydrochloric acid
HPH	High pressure homogenization
HPLC	High performance liquid chromatography
Hz	Hertz

IC ₅₀	50% Inhibition concentration
KBr	Potassium bromide
KCl	Potassium chloride
kDa	Kilodalton
kg	Kilogram
KH ₂ PO ₄	Dibasic potassium phosphate
KOH	Potassium hydroxide
kV	Kilovolt
l	Liter
LC/API-MS	Liquid Chromatography Coupled with Atmospheric Pressure Ionization Mass Spectrometry
L.O.D.	Limit of detection
L.O.Q.	Limit of quantitation
M	Molar
mg	Milligram
MIC	Minimum inhibition concentration
min	Minute
ml	Milliliter
mm	Millimeter
mM	Millimolar
mmol	Millimole
mp	Melting point
MS	Mass spectrum
mV	Millivolt
MW	Molecular weight
N	Normal
NaOH	Sodium hydroxide
NaCl	Sodium chloride
NaHCO ₃	Sodium bicarbonate
Na ₂ CO ₃	Sodium carbonate

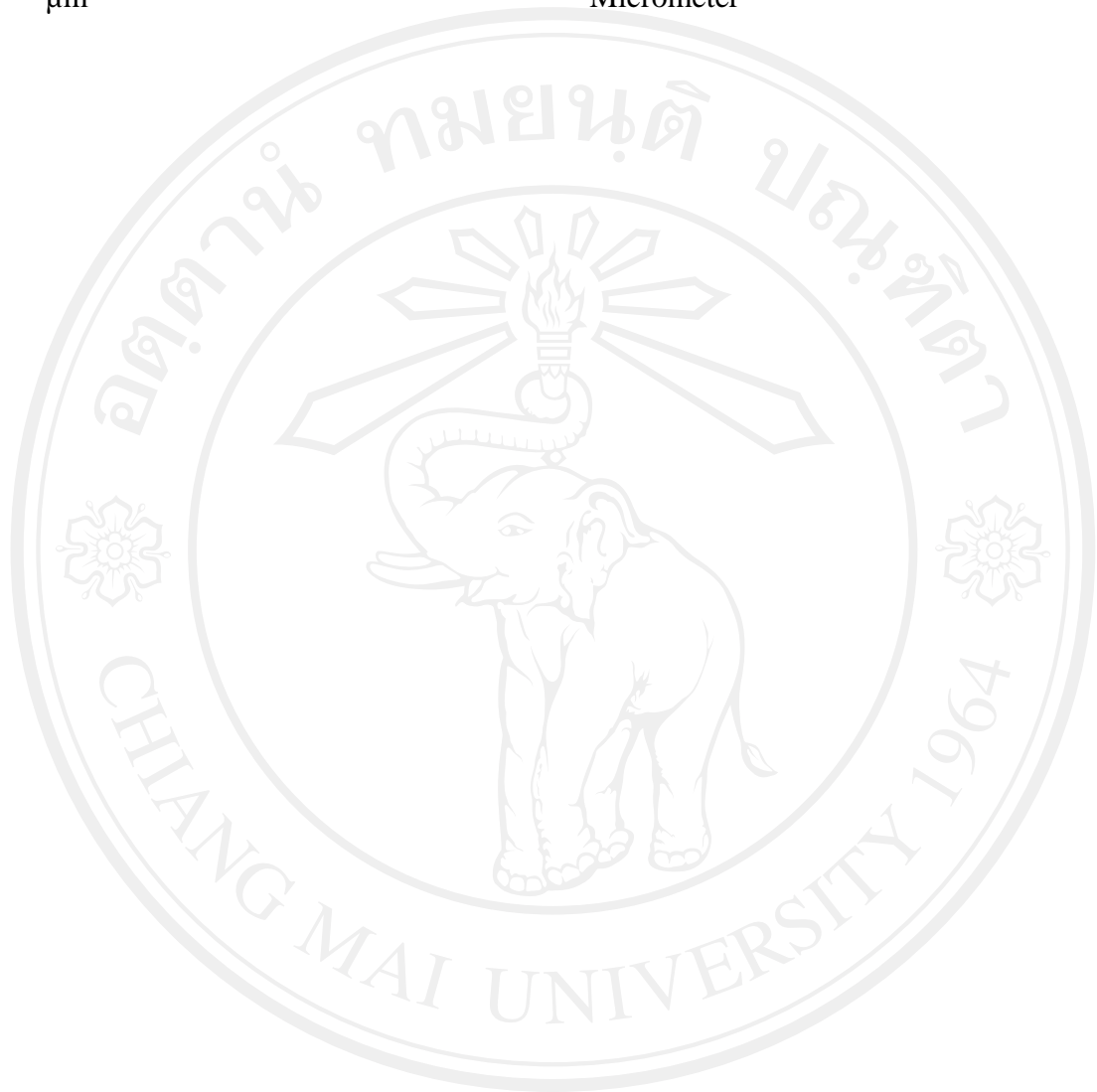
NaH ₂ PO ₄	Dibasic sodium phosphate
Na ₂ HPO ₄	Monobasic sodium phosphate
NLC	Nanostructured lipid carrier
nm	Nanometer
PCL	Poly(ϵ -caprolactone)
PCS	Photon Correlation Spectroscopy
PDI	Polydispersity index
PEG	Polyethylene glycol
PEMA	Poly(ethylene- <i>alt</i> -maleic acid)
PGA	Poly (glycolic acid)
pH	Potential (or power) of hydrogen
PLA	Poly(D,L-lactic acid)
PLGA	Poly(DL-lactic-co-glycolic acid)/ poly(lactide- <i>co</i> -glycolide)
ppm	Part per million
PVA	Polyvinyl alcohol
QCT	Quercetin
ROS	Reactive oxygen species
rpm	Revolution per minute
s	Second
SCMC	Sodium carboxymethylcellulose
SLN	Solid lipid nanoparticles
TBHQ	<i>tert</i> -butyl hydroquinone
TEAC	Trolox equivalent antioxidant capacity
TEM	Transmission Electron Microscopy
TLC	Thin layer chromatography
UA	Uranyl acetate
US FDA	United State of America Federal Drug Administration
UV	Ultraviolet
μ g	Microgram

µl

Microliter

µm

Micrometer



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