

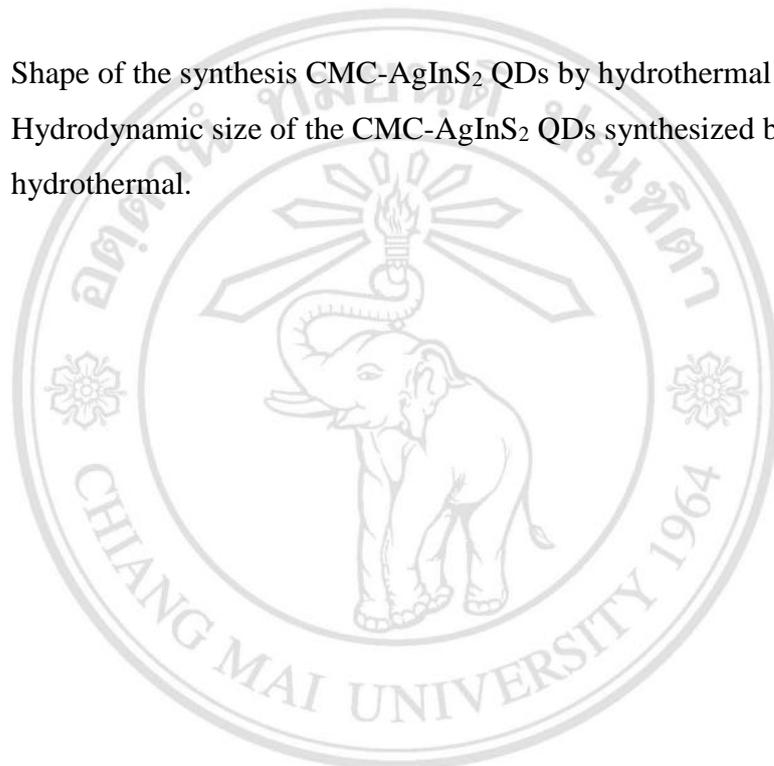
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LIST OF ABBREVIATIONS

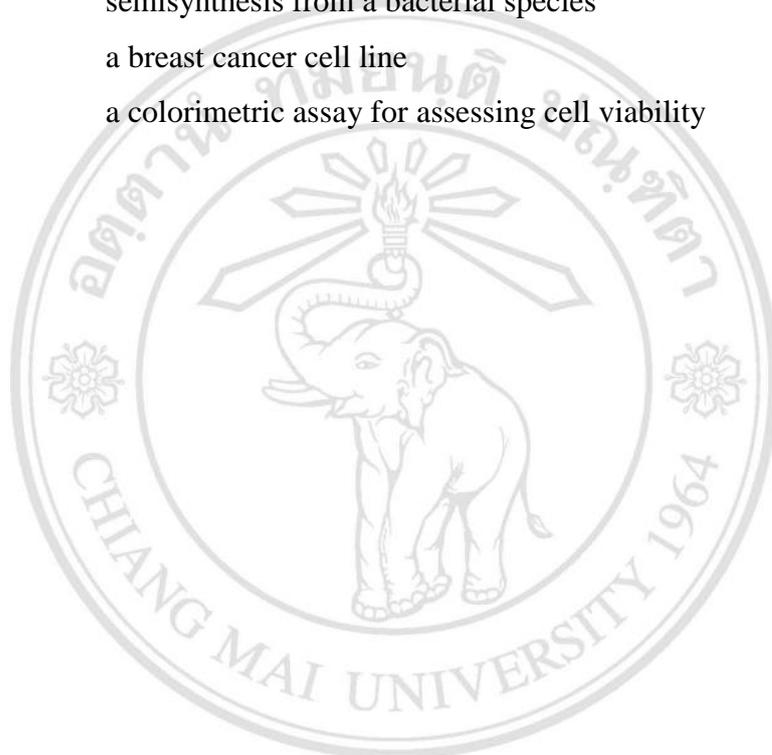
QDs	Quantum dots
CMC	Carboxymethyl cellulose
Ag ₂ S	Silver indium sulfide
DOX	Doxorubicin
XRD	X-ray Diffraction
XPS	X-ray photoelectron spectroscopy
TEM	Transmission electron microscopy
DLS	Dynamic light scattering
FTIR	Fourier transform infrared spectroscopy
TGA	Thermogravimetric analysis
PL	Photoluminescence spectroscopy
JCPDS	Joint Committee on Powder Diffraction Standards
%DEE	DOX entrapping efficiency
%DLE	DOX loading efficiency
KBr	Potassium bromide
PBS	Phosphate buffered saline
MCF7	Human breast cancer
CO ₂	Carbon dioxide
MTT	3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyl tetrazolium bromide
DMSO	Dimethyl sulfoxide
FBS	Fetal Bovines Serum
RPMI 1640 medium	Roswell Park Memorial Institute 1640 medium (culture medium)

LIST OF SYMBOLS

$d(H)$	Hydrodynamic diameter
D	Translational diffusion coefficient
k	Boltzmann's constant
T	Absolute temperature
η	Viscosity
$^{\circ}$	Degree
$^{\circ}C$	Degree Celsius
s	Second
h	Hour
kV	Kilovolt
cm	Centimeter
cm^{-1}	Wavenumber
min	Minute
nm	Nanometer
L	Liter
μL	Microliter
mg	Milligram
mM	Millimolarity
ϵ	Coefficient
α	Absorbance
$h\nu$	Photon energy
E_g	Energy gap
U/mL	Unit/milliliter (commission on enzyme)

GLOSSARY

QDs	nanocrystal made of semiconductor materials that is small enough to exhibit quantum mechanical properties
DOX	a drug used in cancer chemotherapy and derived by chemical semisynthesis from a bacterial species
MCF7	a breast cancer cell line
MTT	a colorimetric assay for assessing cell viability



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