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ABBREVIATIONS AND SYMBOLS

%	Percent
λ_{max}	Maximum wavelength
ACN	Acetonitrile
BHA	Butylated hydroxyanisole
BHT	Butylated hydroxytoluene
^{o}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_2PO_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_2CO_3	Sodium carbonate

NaH_2PO_4	Dibasic sodium phosphate
Na_2HPO_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-*alt*-maleic acid)
PGA	Poly (glycolic acid)
pH	Potential (or power) of hydrogen
PLA	Poly(D,L-lactic acid)
PLGA	Poly(DL-lactic-coglycolic acid)/ poly(lactide-*co*-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	*tert*-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
µg	Microgram

µl	Microliter
µm	Micrometer