

List of Symbols

Symbol	Description
α	Alpha
β	Beta
π	Pie
$C=O$	Carboxyl group
λ_{max}	Maximum wavelength of absorption
λ_{em}	Emission maxima
λ_{ex}	Excitation maxima
$A\beta$	alpha-beta
$AuNPs^{Piperine}$	Piperine coated gold nanoparticles
$AuNPs^{Trp}$	Tryptophan coated gold nanoparticles
$AuNPs^{HYP}$	Hydroxyproline coated gold nanoparticles
$AgNPs^{Cap}$	Tryptophan coated silver nanoparticles
Hsp70	Heat shock protein 70
Hsp40	Heat shock protein 40
-NH ₂	Amino group
Cu	Copper
Zn	Zinc
T _m	Melting temperature
w/w	Weight by weight
K _{sv}	Stern-Volmer quenching constant
K _q	Biomolecule quenching rate constant
K _a	Binding constant
μM	Micrometers
mM	Millimeter
nm	Nanometer
-OH	Hydroxyl group
-O-CH ₃	Methoxy group
cm	Centimeters
°C	Degree Celcius
D _t	Total eugenol concentration
B _t	Total insulin Concentration
F _o	Absolute fluorescence intensity of fluorophore in absence of quencher
F	fluorescence intensity of fluorophore in the presence of quencher
Q	Concentration of quencher
τ_0	Half-life of fluorophore
mg.ml ⁻¹	Milligram per milliliter
HCl	Hydrochloride
n	Binding parameter
μl	Microliters
Hz	Hertz
V	Voltage
CaCl ₂	Calcium chloride
KOH	Potassium hydroxide
GBs	Gigabytes
KDa	Kilo Daltons
ITC	Isothermal Titration Calorimetry

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