

## List of Symbols

Symbol	Description
$\alpha 1$	Alpha-1 Chain of Collagen Molecule
$\alpha 2$	Alpha-2 Chain of Collagen Molecule
$\beta$	Beta
$\pi$	Pie
C=O	Carboxyl Group
$\lambda_{\max}$	Maximum Wavelength of Absorption
$\lambda_{\text{em}}$	Emission Maxima
$\lambda_{\text{ex}}$	Excitation Maxima
$\text{A}\beta$	Alpha-Beta
$\text{AuNPs}^{\text{Tyr}}$	Tyrosine Coated Gold Nanoparticles
$\text{AuNPs}^{\text{Trp}}$	Tryptophan Coated Gold Nanoparticles
$\text{AgNPs}^{\text{Tyr}}$	Tyrosine Coated Silver Nanoparticles
$\text{AgNPs}^{\text{Trp}}$	Tryptophan Coated Silver Nanoparticles
Hsp70	Heat Shock Protein 70
Hsp40	Heat Shock Protein 40
-NH <sub>2</sub>	Amino Group
Cu	Copper
Zn	Zinc
T <sub>m</sub>	Melting Temperature
w/w	Weight by Weight
K <sub>sv</sub>	Stern-Volmer Quenching Constant
K <sub>q</sub>	Biomolecule Quenching Rate Constant
K <sub>a</sub>	Binding Constant
$\mu\text{M}$	Micromolar
mM	Millimolar
mm	Millimeter
nm	Nanometer
-OH	Hydroxyl Group
-O-CH <sub>3</sub>	Methoxy Group
cm	Centimeters
°C	Degree Celcius
D <sub>t</sub>	Total Eugenol Concentration
B <sub>t</sub>	Total Insulin Concentration
F <sub>o</sub>	Absolute Fluorescence Intensity of Fluorophore in the Absence of Quencher
F	Fluorescence Intensity of Fluorophore in the Presence Of Quencher
Q	Concentration of Quencher
$\tau_0$	Half-Life of Fluorophore
mg.ml <sup>-1</sup>	Milligram per Milliliter
HCl	Hydrochloride
n	Binding Parameter
$\mu\text{l}$	Microliter
Hz	Hertz
V	Voltage
CaCl <sub>2</sub>	Calcium Chloride
KOH	Potassium Hydroxide
GB	Gigabyte
KDa	Kilodalton

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