

LIST OF ABBREVIATIONS

6-31G	=	Basis set: (1s: 6 GTO's; 2s (2px etc.): 3 GTO's; 2s'(2px' etc.): one GTO)
AM 1	=	Austin Model 1
B3LYP	=	Becke 3-term functional; Lee, Yang, Parr exchange
B3LYP/6-31G//AM1	=	Molecular energy calculation form optimized by AM1
B3LYP/6-31G//PM3	=	Molecular energy calculation form optimized by PM3
DEX	=	Dextran
DXR, DOX	=	Doxorubicin
EPR	=	Enhanced permeability and retention
FITC	=	Fluorescein isothiocyanate
GAUSSIAN 03W	=	GAUSSIAN software for Windows
GaussViewW	=	GaussView software for window
GC	=	Glycol-chitosan
HF	=	Hartree-Fock theory
H ₂ O	=	Water
H ₃ O ⁺	=	Hydronium ion
OH ⁻	=	Hydroxide ion
PM3	=	MNDO parameter method number 3
Ψ	=	Wavefunction