

LIST OF SYMBOLS AND ABBREVIATIONS

$^1\text{O}_2$	singlet oxygen
ALA	δ -aminolevulinic acid
ce6	chlorin e6
Cl _a	<i>Cladophora patentiramea</i>
CO ₂	carbon dioxide
COSY	correlation spectroscopy
DMSO	dimethyl sulphoxide
FBS	foetal bovine serum
g	gram
HL60	human promyelocytic leukemia cell-line
HMBC	heteronuclear Multiple Bond Correlation
Hp	hematoporphyrin
HpD	hematoporphyrin derivative
HPLC	high performance liquid chromatography
HSQC	heteronuclear single quantum coherence
IUPAC	International Union of Pure and Applied Chemistry
Lu-Tex	lutetium texaphyrin
me-	methylated
Me-Pha	pheophorbide- <i>a</i> methyl ester
mg	milligram
MS	mass spectroscopy
MTT	3-[4,5-dimethylthiazol-2-yl]-2,5-diphenyltetrazolium bromide
<i>m/z</i>	mass/charge
nm	nanometer
NMR	nuclear magnetic resonance
Npe6	mono-L-aspartyl-chlorin e6
OH-Pha	¹³ C-hydroxypheophorbide- <i>a</i> methyl ester
OMe-Pha	¹³ C-methoxyl-pheophorbide- <i>a</i> methyl ester
PDA	photodiode array detector
PDD	photodynamic diagnostic
PDT	photodynamic therapy
PpIX	protoporphyrin IX
R _t	retention time
ROS	reactive oxygen species
RP-HPLC	reversed phase-high performance liquid chromatography
Semi-PREP	semi-preparative
Si	silica
TLC	thin layer chromatography
Tur	<i>Turbinaria conoides</i>
UV-Vis	ultra-violet visible