

LIST OF ABBREVIATIONS

A_{iso}	Hyperfine coupling constant
B_0	Zeeman field
B_0^{ESR}	ESR Zeeman field
B_0^{NMR}	NMR Zeeman field
BBB	Blood brain barrier
carbamoyl-PROXYL	3-carbamoyl-2, 2, 5, 5-tetramethyl-pyrrolidine-1-oxyl
carboxy-PROXYL	3-carboxy-2,2,5,5,- tetra-methyl-1-pyrrolidinyloxy
DNP	dynamic nuclear polarization
Egg PC	L- α Phosphatidylcholine
EPR	electron paramagnetic resonance
ESR	electron spin resonance
FID	Free induction decay
FWHM	Full-width half-maximum
G_E	gradient echo
G_P	gradient phase
G_S	gradient slice
I	nuclear spin quantum number
MC-PROXYL	3-methoxycarbonyl-2,2,5,5-tetra-methyl-pyrrolidine-1-oxyl
MRI	magnetic resonance imaging
NMR	nuclear magnetic resonance

OMRI	Overhauser-enhanced magnetic resonance imaging
RF	radio frequency
RSA	Radical scavenging activity
S	electron spin quantum number
T ₁	water proton spin-lattice relaxation time
T ₂	spin-spin relaxation time
T _E	echo time
T _{ESR}	ESR irradiation time
T _R	repetition time
TEMPO	2,2,6,6-tetramethyl piperidine-1-oxyl
TEMPOL	4-hydroxy-2,2,6,6-tetramethyl-piperidine-1-oxyl
TEMPONE	4-oxo-2,2,6,6-tetramethyl-piperidine-1-oxyl