

## **List of Abbreviations**

%ID/g	Percentage of injected dose per gram of tissue
$^{99m}\text{Tc}$	$^{99m}\text{Tc}$ Technetium
$^{99m}\text{TcO}_4$	Pertechnetate
AFM	Atomic force microscopy
AUC	Area under the plasma concentration-time curve
Blank-POLY	Without drug loaded polymersomes
CL	Total clearance
$C_{\text{max}}$	Peak plasma concentration
CPK	Creatine phosphokinase
DLS	Dynamic light scattering
DMBA	7,12-dimethylbenz[ $\alpha$ ]anthracene
DMSO	Dimethyl sulfoxide
DOC	Docetaxel trihydrate
DOX	Doxorubicin HCl
DTPA	Diethylenetriaminepentaacetic acid
EAT	Ehrlich Ascites Tumor
EPR	Enhanced permeation retention
FF-TEM	Freeze-fracture transmission electron microscopy
HYA or HA	Hyaluronan
HYACCH	$\alpha$ -alkyne-HYA
$\text{IC}_{50}$	Inhibitory concentration of drug producing 50% of cell growth
ITLC	Instant thin layer chromatography
LDH	Lactate dehydrogenase
Lz	Terminal elimination rate constant
MDR	Multidrug resistance
MFI	Mean fluorescence intensity
MRT	Mean residence time
MTT	3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyl tetrazolium bromide

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MWCO	Molecular Weight Cut Off
nM	Nanomole
PBLG	Poly( $\gamma$ -benzyl L-glutamate)
PDI	Polydispersity Index
Pgp	P-glycoprotein pump
PolyDOC	Docetaxel loaded polymersomes
PolyDOX	Doxorubicin loaded polymersomes
$R_t$	Retention factor
$R_g$	Radius of Gyration
$R_H$	Hydrodynamic Radii
ROS	Reactive oxygen Species
RT	Room Temperature
SANS	Small Angle Neutron Scattering
SD	Standard deviation
SLS	Static light scattering
$T_{1/2}$	Terminal elimination half-life
$T_{max}$	Time required for peak concentration
TFA	Trifluoroacetic acid
$V_{ss}$	Apparent volume of the plasma compartment
$V_z$	Volume of distribution during the terminal phase
$\lambda_{max}$	Absorption maxima
$\mu M$	Micromole

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