

Materials List for:

Spatial Measurements of Perfusion, Interstitial Fluid Pressure and Liposomes Accumulation in Solid Tumors

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Materials

Name	Company	Catalog Number	Comments
MDA-MB-231 metastatic breast adenocarcinoma tumor cells	ATCC	HTB-26	
Dulbecco's Modified Eagle Medium (DMEM)	Life Technologies	11965-092	
Fetal Bovine Serum (FBS)	Sigma-Aldrich	F1051	
HyClone Penicillin-Streptomycin 100x Solution	GE Healthcare Life Sciences	SV30010	
Trypsin-EDTA (0.05%), phenol red	ThermoFisher Scientific	25300-054	
1,2-dipalmitoyl-sn-glycero-3-phosphocholine (DPPC)	Avanti Lipids Inc., USA	850355P	
Cholesterol (CH)	Avanti Lipids Inc., USA	700000P	
1,2-distearoyl-sn-glycero-3-phosphoethanolamine-N-poly(ethylene glycol) 2000 (DSPE-PEG2000)	Avanti Lipids Inc., USA	880128P	
Omnipaque (Iohexol) 300 mg of iodine/ml	GE Healthcare, CA		
80 nm pore size Track-Etch polycarbonate membranes	Whatman Inc., USA		
200 nm pore size Track-Etch polycarbonate membranes	Whatman Inc., USA		
10 m Lipex Extruder	Nothern Lipids Inc, CA		
Dialysis Bag Molecular Weight Cut Off (MWCO) of 8 kDa	Spectrum Labs, USA		
750,000 Nomial Molecular Weight Cut Off (NMWC) Tangential flow column	MidGee ultrafiltration cartridge, GE Healthcare, CA		
Peristaltic pump	Watson Marlow Inc., USA		
UV spectrometer	Helios γ, Spectronic Unicam, USA		
90Plus particle size analyzer	Brookhaven, Holtsville, USA		
eXplore Locus Ultra micro-CT system	GE Healthcare, CA		Manipulated using CT-Console Software
AxRecon GPU-based Reconstruction	Acceleware Corp. CA		

27 G Catheter SURFLO Winged Infusion Set	Terumo Medical Products, USA	SV*27EL	
PE20 polyethylene tubing	Becton Dickinson, USA	427406	
Pen tip 25 G × 3.5" Whitacre spinal needle	Becton Dickinson, USA	405140	IFP needle
P23XL pressure transducer	Harvard Apparatus, CA	P23XL	
PowerLab 4/35, Bridge Amp, with LabChart Pro 7.0	ADInstruments Pty Ltd., USA	PL3504, FE221	IFP acquisition system and acquisition software
CT-Sabre Small Animal Intervention system (CT-IFP Robot)	Parallax Innovations, CA		Manipulated using CT-IFP robot Control Software
CT-IFP robot alignment software			Custom Matlab software
DCE-CT Analysis Software			Custom Matlab software
Matlab 2013b	Mathworks, USA		