

Materials List for:

Photodynamic Therapy with Blended Conducting Polymer/Fullerene Nanoparticle Photosensitizers

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Materials

Name	Company	Catalog Number	Comments
Poly[2-methoxy-5-(2-ethylhexyloxy)-1,4-phenylenevinylene] (MEH-PPV)	Sigma Aldrich	536512-1G	average M _n 150,000-250,000
[6,6]-Phenyl C61 butyric acid methyl ester (PCBM)	Sigma Aldrich	684449-500MG	>99.5%
Tetrahydrofuran (THF)	EMD	TX0284-6	Drisolv
1 ml syringe	National Scientific Company	37510-1	For filtration of MEH-PPV solution
Syringe filter	VWR	28145-495	25 mm, 0.2 μm, PTFE
1 ml syringe	Hamilton Company	81320	For injection of MEH-PPV solution into water to make nanoparticles
Dulbecco's Modification of Eagle's Medium/Ham's F-12 50/50 Mix (DMEM)	Corning (VWR)	45000-350	
Hank's Balanced Salt Solution without phenol red (HBSS)	Quality Biological (VWR)	10128-740	
Dulbecco's Phosphate-Buffered Saline, 1x without calcium and magnesium (DPBS)	Corning (VWR)	45000-436	
Fetal Bovine Serum, Regular (Heat Inactivated) (FBS)	Corning (VWR)	45000-736	
Trypsin EDTA 1x 0.25%	Corning (VWR)	45000-664	Trypsin/2.21 mM EDTA in HBSS without sodium bicarbonate, calcium and magnesium Porcine Parvovirus Tested
16% Paraformaldehyde	Electron Microscopy Sciences	15710	16% paraformaldehyde is diluted to 4% by adding PBS
DAPI	Biotium VWR	89139-054	Nuclear stain
5 ml pipettes	VWR	82050-478	
75 cm ² culture flask	VWR	82050-856	for culturing cells
96-well plates	VWR	82050-771	for MTT assays
Tissue Culture Dishes with Vents	Greiner Bio-One (VWR)	82050-538	
Propidium iodide	Molecular probes	P3566	
Annexin V FITC	Invitrogen	A13199	dye for apoptosis
Celltiter 96 non-R 1000 assays	Promega (VWR)	PAG4000	MTT
CellROX Green Reagent, for oxidative stress detection	Invitrogen	C10444	For ROS detection

UV-vis spectrometer	Agilent 8453		
Fluorescence spectrometer	NanoLog HoribaJobin Yvon		
Dynamic light scattering	PD2000DLS, Precision detector		
Incubator	NuAir DH Autoflow		
Confocal microscope	Zeiss Axioskop2		63X oil immersion objective lens
Epiluminescence microscope	Olympus IX71		60X water immersion objective lens, Andor Zyla sCMOS camera
Solar Simulator	Newport 67005 Oriel Instruments		
Reference solar cell	Oriel		VLSI Standards Incorporated
Microplate reader	BioTek Ex808		
Hemocytometer	Hausser Scientific Partnership	3200	For counting cells