

Materials List for:

Electroactive Polymer Nanoparticles Exhibiting Photothermal Properties

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URL: <https://www.jove.com/video/53631>

DOI: [doi:10.3791/53631](https://doi.org/10.3791/53631)

Materials

Name	Company	Catalog Number	Comments
2 mm diameter platinum working electrode	CH Instruments	CH102	Polished using very fine sandpaper
3,4-ethylenedioxythiophene	Sigma-Aldrich	483028	Purified by vacuum distillation
3-(4,5-Dimethylthiazol-2-yl)-2,5-Diphenyltetrazolium Bromide (MTT) 98%	Alfa Aesar	L11939	
505 Sonic Dismembrator	Fisher Scientific™	FB505110	1/8" tip and rated at 500 watts
808 nm laser diode	ThorLabs	L808P1WJ	Rated at 1 W
Acetonitrile anhydrous 99%	Acros	61022-0010	
Avanti J-26 XPI	Beckman Coulter	393127	
Bromohexane 98%	MP Biomedicals	202323	
Dialysis (100,000) MWCO	SpectrumLabs	G235071	
Dimethyl sulfoxide 99% (DMSO)	BDH	BDH1115	
Dimethylformamide anhydrous (DMF) 99%	Acros	326870010	
Dodecyl benzenesulfonate (DBSA)	TCI	D0989	
Dulbecco's modified eagle medium (DMEM)	Corning	10-013 CV	
EMS 150 TES sputter coater	Electron Microscopy Sciences		
Ethanol (EtOH) 100%	BDH	BDH1156	
ethyl 4-bromobutyrate (98%)	Acros	173551000	
Ethyl acetate 99%	Fisher	UN1173	
Fetal bovine serum (FBS)	Corning	35-010-CV	
Helios NanoLab 400	FEI		
Hexane	Fisher	H306-4	
Hydrochloric acid (HCl)	Fisher	A142-212	
Hydroquinone 99.5%	Acros	120915000	
Hydrazine anhydrous 98%	Sigma-Aldrich	215155	
Indium tin oxide (ITO) coated galss	Delta Technologies	CG-41IN-CUV	4-8 Ω/sq
Iron chloride 97% FeCl ₃	Sigma-Aldrich	157740	
Magnesium sulfate (MgSO ₄)	Fisher	593295	Dried at 100 °C
SKOV-3	ATCC	HTB-26	
Methanol	BDH	BHD1135	

n-Butyllithium (2.5 M)	Sigma-Aldrich	230707	Pyrophoric
Poly(styrenesulfonate-co-malic acid) (PSS-co-MA) 20,000 MW	Sigma-Aldrich	434566	
Potassium carbonate	Sigma-Aldrich	209619	Dried at 100 °C
Potassium hydroxide	Alfa Aesar	A18854	
Potassium iodide	Fisher	P410-100	
RO-5 stirplate	IKA-Werke		
SC4000 IR camera	FLIR		
Synergy H4 Hybrid Reader	Biotek		
Tetrabutylammonium perchlorate (TBAP) 99%	Sigma-Aldrich	3579274	Purified by recrystallization in ethyl acetate
Tetrahydrofuran anhydrous (THF) 99%	Sigma-Aldrich	401757	
tetrakis(triphenylphosphine) palladium(0)	Sigma-Aldrich	216666	Moisture sensitive
Thermomixer	Eppendorf		
USB potentiostat/galvanostat	WaveNow	AFTP1	
Zetasizer Nano Zs	Malvern		Optical Arrangement 175°
Zinc chloride (1 M) ZnCl ₂	Acros	370057000	