

Materials List for:

Synthesis of Cd-free InP/ZnS Quantum Dots Suitable for Biomedical Applications

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URL: <https://www.jove.com/video/53684>

DOI: [doi:10.3791/53684](https://doi.org/10.3791/53684)

Materials

Name	Company	Catalog Number	Comments
Oleylamine	Acros	129540010	
Zinc(II) chloride	Sigma	030-003-00-2	
Indium(III) chloride	Chem-Impex	24560	
Tris(dimethylamino)phosphine	Encompass	50-901-10500	
1-dodecanethiol	Acros	117625000	
Hexanes	Fisher Sci	H292-4	
Acetone	TransChemical	UN 1090	
Zinc Stearate	Aldrich Chem	307564-1KG	
Tetrahydrofuran	Acros	34845-0010	
Molecular Water	Fisher Sci	BP2470-1	
Poly(maleic anhydride- <i>alt</i> -1-tetradecene), 3-(dimethylamino)-1-propylamine derivative	Sigma	90771-1G	
Boric acid	Fisher Sci	BP168-500	
Sodium Tetraborate Decahydrate	Fisher Sci	BP175-500	
Rhodamine B	Aldrich Chem	R95-3	
Nitrogen gas	Airgas	UN1066	
Trypan blue	Thermo Sci	SV30084.01	
3 ml plastic Luer-lock syringe	BD	309657	
Luer-lock Needle	Air-Tite	8300014471	4 inch, 22 gauge
50 ml polypropylene centrifuge tube	Falcon	352098	
250 ml centrifuge bottle	Thermo Sci	05-562-23	Nalgene PPCO
5 ml centrifuge tubes	Argos-Tech	T2076	
1.5 ml microcentrifuge tubes	Bio Plas	4150	
0.1 µm Syringe filter	Whatman	6786-1301	Puradisc 13 mm nylon filter
Slide-A-Lyzer MINI Dialysis Unit	Thermo Sci	69590	20,000 MWCO
Rotary Evaporator	Heidolph		
Centrifuge 5072	Eppendorf		Swinging Bucket with 50 ml tube adapters
Lambda 650 UV/VIS Spectrometer	Perkin Elmer		UV-Vis Spectrophotometer
LS 55 Fluorescence Spectrometer	Perkin Elmer		Fluorometer
Axio Observer.A1	Zeiss		epifluorescence microscope
AxioCam MRm	Zeiss		CCD Camera

Tecnai TF20 Microscope	FEI		Transmisison Electron Miscroscope
TEM Eagle CCD	FEI		TEM CCD Camera
NanoBrook Omni DLS	Brookhaven		Dynamic Light Scattering Instrument