

Materials List for

Production of Near-Infrared Sensitive, Core-Shell Vaccine Delivery Platform

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jove.com/video/60569

Materials

Name	Company	Catalog Number	Comments
1-Step Ultra Tetramethylbezidine (TMB)-Enzyme-Linked Immunosorbent Assay (ELISA) Substrate Solution	Thermo scientific	34028	
2-Hydroxy-2-methylpropiophenone	TCI AMERICA	H0991	
450 nm Stop Solution for TMB Substrate	Abcam	ab17152	
Acryloyl chloride	Sigma Aldrich	A24109-100G	
Acriflavine	Chem-Impex International	22916	
Anhydrous ethyl ether	Fisher Chemical	E138-500	
Anti-HIV1 gp120 antibody conjugated to horseradish peroxidase (HRP)			
Bovine serum albumin (BSA)	Fisher BioReagents	BP9700100	
BSA-CF488 dye conjugates	Invitrogen	A13100	
Bromosalicylic acid	Acros Organics	AC162142500	
Carboxymethylcellulose (CMC)	Millipore Sigma	80502-040	
Centrimonium bromide (CTAB)	MP Biomedicals	ICN19400480	
Chloroform	Fisher Chemical	C2984	
Coating buffer	Abcam	ab210899	
Dichloromethane (DCM)	Sigma Aldrich	270997-1L	
Diethyl ether	Fisher Chemical	E1384	
Dodecyl Amine	Acros Organics	AC117665000	
Doxorubicin hydrochloride	Fisher BioReagents	BP251610	
L-ascorbic acid	Acros Organics	A61 100	
Legato 100 Syringe Pump	KD Scientific	14 831 212	
mPEG thiol	Laysan Bio	NC0702454	
Nonfat dry milk	Andwin Scientific	NC9022655	
Potassium carbonate	Acros Organics	AC424081000	
Phosphate saline buffer	Fisher BioReagents	BP3991	
(Poly(caprolactone))	Sigma Aldrich	440744-250G	

(Poly(caprolactone) triol	Acros Organics	AC190730250	
Poly (lactic-co-glycolic acid) diacrylate	CMTec	280050	
Potassium carbonate	Acros Organics	AC424081000	
Recombinant HIV1 gp120 + gp41 protein	Abcam	ab49054	
Silver nitrate	Acros Organics	S181 25	
Sodium borohydride	Fisher Chemical	S678 10	
Tetrachloroauric acid	Fisher Chemical	G54 1	
Trehalose	Acros Organics	NC9022655	
Triethyl amine	Acros Organics	AC157910010	