

Materials List for:

Manufacture and Drug Delivery Applications of Silk Nanoparticles

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Materials

Name	Company	Catalog Number	Comments
Acetone	VWR International, Radnor, PA, USA	20066.33	
Automated Critical Point Dryer	Leica Microsystems, Wetzlar, Germany	EM CPD300	
Balancing	Mettler Toledo, Greifensee, Switzerland	NewClassic MS	
Black polystyrene microplate, 96 well	Sigma-Aldrich, St. Louis, MO, USA	3991	
Capillary cell (DTS 1070)	Malvern Instrument, Worcestershire, UK	DTS107	
Carbon adhesive disc	Agar Scientific, Essex, UK	G3347N	
Centrifuge	Hermle Labortechnik, Wehingen, Germany	Z323K	
Centrifuge	Beckman Coulter, Brea, CA, USA	Avanti J-E, Rotor: J20	
Centrifuge	Beckman Coulter, Brea, CA, USA	Optima L-70K, Rotor: 50.2 Ti, Adaptor 303392	
Coater, low vacuum	Leica Microsystems, Wetzlar, Germany	EM ACE200	
Cuvettes, polystyrene, disposable	Fisher Scientific, Waltham, MA, USA	FB55147	
Doxorubicin	LC Laboratories, Boston, MA, USA	D4000	
Electronic pipetting, Easypet	Eppendorf, Hamburg, Germany	N/A	
FE-SEM	Hitachi High-Technologies, Krefeld, Germany	SU6600	
Fetal Bovine Serum	Thermo Scientific, Waltham, MA, USA	16000-044	
Freeze dryer	Martin Christ, Osterode, Germany	Epsilon 2-4	
Heat inactivated Bombyx mori silk cocoons	Tajima Shoji, Kanagawa, Japan	N/A	
Hotplate with Stirrer	Bibby Scientific, Staffordshire, UK	US 152	
Incubator	Memmert, Schwabach, Germany	INB 200	
Insulin, human recombinant, zinc solution	Thermo Scientific, Waltham, MA, USA	12585-014	
Lithium bromide	Acros Organics, Geel, Belgium	AC199870025	
MDA-MB-231	ATCC, Manassas, VA, U.S.A	N/A	
Micropipette and tips	Eppendorf, Hamburg, Germany	N/A	
Microplate Reader	Molecular devices, Sunnyvale, CA, USA	SpectraMax M5	
Oak Ridge High-Speed Centrifuge Tubes, 50 ml	Thermo Scientific, Waltham, MA, USA	N/A	

Open-Top Thickwall Polycarbonate tube, 4 ml	Beckman Coulter, Brea, CA, USA	355645	
Penicilin/streptomycin	Thermo Scientific, Waltham, MA, USA	15140-122	
RPML medium	Thermo Scientific, Waltham, MA, USA	11875-093	
Serological pipettes, 5 ml	Sigma-Aldrich, St. Louis, MO, USA		
Silicon wafers	Agar Scientific, Essex, UK	G3391	
Slide-A-Lyzer Dialysis cassettes, 3.5K MWCO, 15 ml	Thermo Scientific, Waltham, MA, USA	87724	
Sodium carbonate anhydrous	Fisher Scientific, Waltham, MA, USA	S/2840/62	
Specimen stubs for SEM	Agar Scientific, Essex, UK	G301	
Ultrasonic homogenizer	Bandelin, Berlin, Germany	Sonoplus HD 2070	
UV transparent microplate, 96 well	Sigma-Aldrich, St. Louis, MO, USA	3635	
Vortex	IKA, Staufen, Germany	Genius 3	
Zetasizer	Malvern Instrument, Worcestershire, UK	Nano ZS	
Zetasizer Software version 7.11		DLS software	
Micro Modulyo	Thermo Fisher	230	Freeze drying system