Materials List for:

Preparation of Neutrally-charged, pH-responsive Polymeric Nanoparticles for Cytosolic siRNA Delivery

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Materials

Name	Company	Catalog Number	Comments
0.45 µm pore-size syringe filters	Thermo Fisher Scientific	F25133	17 mm diameter, PTFE membrane
0-14 pH test strips	Millipore Sigma	P4786	
10x TAE buffer	Thermo Fisher Scientific/Invitrogen	AM9869	
6-7.7 pH test strips	Millipore Sigma	P3536	
96-well black walled plates	Corning	3603	Tissue-culture treated
Agarose Powder	Thermo Fisher Scientific/Invitrogen	16500	
Citric acid monohydrate	Millipore Sigma	C1909	
dibasic sodium phosphate dihydrate	Millipore Sigma	71643	
D-luciferin	Thermo Fisher Scientific	88294	Monopotassium Salt
DMEM	Gibco	11995065	High glucose and pyruvate
Ethanol	Millipore Sigma	459836	
ethidium bromide	Thermo Fisher Scientific/Invitrogen	15585011	
FBS	Gibco	26140079	
loading dye	Thermo Fisher Scientific/Invitrogen	R0611	
Luciferase siRNA	IDT	N/A	Antisense Strand Sequense: GAGGAGUUCAUUAUCAGUGC AAUUGUU Sense Strand Sequense: CAAUUGCACU GAUAAUGAACUCCT*C* *DNA bases
MDA-MB-231 / Luciferase (Bsd) stable cells	GenTarget Inc	SC059-Bsd	Luciferase-expressing cells sued to assess si-NP bioactivity
monobasic sodium phosphate monohydrate	Millipore Sigma	S9638	
Scarmbled siRNA	IDT	N/A	Antisense Strand Sequense: AUACGCGUAUU AUACGCGAUUAACGAC Sense Strand Sequense: CGUUAAUCGCGUAUAAUAC GCGUA*T* *DNA bases
square polystyrene cuvettes	Fisher Scientific	14-955-129	4.5 mL capacity
TEM grids	Ted Pella, Inc.	1GC50	PELCO Center-Marked Grids, 50 mesh, 3.0mm O.D., Copper
Trisodium citrate dihydrate	Millipore Sigma	S1804	
uranyl acetate	Polysciences, Inc.	21447-25	

