

Materials List for

Generating Kidney Organoids in Suspension from Induced Pluripotent Stem Cells

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Materials

Name	Company	Catalog Number	Comments
96 Well Cell Culture Plate, Flat-Bottom	NEST	Cat #701003	
Accutase	STEMCELL Technologies	Cat #07920	
Antibodies			
Benzyl alcohol	Sigma-Aldrich	Cat #100-51-6	
Benzyl benzoate	Sigma-Aldrich	Cat #120-51-4	
Biological Safety Cabinet	Haier	Cat #HR40 II A2	
Biotin anti-human LTL (1:300)	Vector Laboratories	Cat #B-1325	
Blood mononuclear cells hiPS-B1 (iPSc, female)	N/A	N/A	
Carbon dioxide level shaker	HAMANY	Cat #C0-06UC6	
Chemicals, peptides, and recombinant proteins			
CHIR99021 (Wnt pathway activator)	STEMCELL Technologies	Cat #72054	
Costar Multiple 6 Well Cell Culture Plate	Corning	Cat #3516	
Costar Ultra-Low Attachment 6 Well Plate	Corning	Cat #3471	
CryoStor CS10	STEMCELL Technologies	Cat #07930	
DAPI stain Solution	Coolaber	Cat #SL7102	
Dextran, Alexa Fluor 647	Thermo SCIENTIFIC	Cat #D22914	
DMEM/F-12 HEPES-free	Servicebio	Cat #G4610	
Donkey Anti-Sheep IgG H&L (Alexa Fluor 647)	Abcam	Cat #ab150179	
Donkey serum stoste	Meilunbio	Cat #MB4516-1	
D-PBS (without calcium, magnesium, phenol red)	Solarbio Life Science	Cat #D1040	
Dry Bath Incubator	Shanghai Jingxin	Cat #JX-10	
Dylight 488-Goat Anti-Mouse IgG (1:400)	Earthox	Cat #E032210	
Dylight 488-Goat Anti-Rabbit IgG (1:400)	Earthox	Cat #E032220	

Dylight 549-Goat Anti-Mouse IgG (1:400)	Earthox	Cat #E032310	
Dylight 549-Goat Anti-Rabbit IgG (1:400)	Earthox	Cat #E032320	
Dylight 649-Goat Anti-Rabbit IgG (1:400)	Earthox	Cat #E032620	
Experimental models: Cell Lines			
Forma Steri-Cycle CO ₂ Incubator	Thermo SCIENTIFIC	Cat #370	
Geltre LDEV-Free	Gibco	Cat #A1413202	
Glass Bottom Culture Dishes	NEST	Cat #801002	
Goat anti-human CUBN (1:300)	Santa Cruz Biotechnology	Cat #sc-20607	
Heparin Solution (Cell culture supplement)	STEMCELL Technologies	Cat #07980	
Human Recombinant FGF-9	STEMCELL Technologies	Cat #78161	
Inverted Microscope	OLYMPUS	Cat #CKX53	
Laser Scanning Confocal Microscope	OLYMPUS	Cat #FV3000	
Methyl cellulose	Sigma-Aldrich	Cat #M7027	
Micro Centrifuge	HENGNUO	Cat #2-4B	
Mouse anti-human CD31 (1:300)	BD Biosciences	Cat #555444	
Mouse anti-human ECAD (1:300)	BD Biosciences	Cat #610182	
Mouse anti-human Integrin beta 1 (1:300)	Abcam	Cat #ab30394	
Mouse anti-human MEIS 1/2/3 (1:300)	Thermo SCIENTIFIC	Cat #39795	
Mowiol 4-88 (Polyvinylalcohol 4-88)	Sigma-Aldrich	Cat #81381	
mTeSR1 5X Supplement	STEMCELL Technologies	Cat #85852	
mTeSR1 Basal Medium	STEMCELL Technologies	Cat #85851	
Nunc CryoTube Vials	Thermo SCIENTIFIC	Cat #377267	
Others			
Rabbit anti-human GATA3 (1:300)	Cell Signaling Technology	Cat #5852S	
Rabbit anti-human LRP2 (1:300)	Sapphire Bioscience	Cat #NBP2-39033	
Rabbit anti-human Synaptopodin (1:300)	Abcam	Cat #ab224491	
Rabbit anti-human WT1 (1:300)	Abcam	Cat #ab89901	
Rabbit anti-mouse PDGFR (1:300)	Abcam	Cat #ab32570	
Recombinant Human Serum Albumin (rHSA)	YEASEN	Cat #20901ES03	
Sheep anti-human NPHS1 (1:300)	R&D Systems	Cat #AF4269	
STEMdiff APEL 2 Medium	STEMCELL Technologies	Cat #05275	
Streptavidin Cy3 (1:400)	Gene Tex	Cat #GTX85902	
Versene (1X)	Gibco	Cat #15040066	
Y-27632 (Dihydrochloride)	STEMCELL Technologies	Cat #72304	