

Materials List for:

Developing hiPSC Derived Serum Free Embryoid Bodies for the Interrogation of 3-D Stem Cell Cultures Using Physiologically Relevant Assays

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Materials

Name	Company	Catalog Number	Comments
SFEB Neuronal Differentiation Cell culture Media. Reagents. Components			
STEMdiff Neural Induction Medium (hiPSC Media)	STEMCELL Technologies	0-5835	250 mL
PluriQ ES-DMEM Medium (MEF Media)	GlobalStem	GSM-2001	
Name Company Catalog Number Comments			
DM1 Media Components			
D-MEM/F-12 (1x), Glutamax liquid, 1:1	Invitrogen	10565018	385 mL
Knockout Serum Replacement	Invitrogen	10828028	20% 100 mL
Pen/Strep	Invitrogen	15140122	5 mL
Glutamax 200 mM	Invitrogen	35050061	5 mL
MEM Non-Essential Amino Acids Solution 10 mM (100x), liquid	Invitrogen	11140050	5 mL
2-Mercaptoethanol (1,000x), liquid	Invitrogen	21985023	900 µL
Name Company Catalog Number Comments			
DM2 Media Components			
D-MEM/F-12 (1x), Glutamax liquid, 1:1	Invitrogen	10565018	500 mL
Glutamax 200 mM	Invitrogen	35050061	5 mL
Pen/Strep	Invitrogen	15140122	5 mL
N-2 Supplement (100x), liquid	Invitrogen	17502048	10 mL
Name Company Catalog Number Comments			
DM3 Media Components			
NEUROBASAL Medium (1x), liquid	Invitrogen	21103049	500 mL
B-27 Supplement Minus Vitamin A (50x), liquid	Invitrogen	12587010	10 mL
Glutamax 200 mM	Invitrogen	35050061	5 mL
Pen/Strep	Invitrogen	15140122	5 mL
Name Company Catalog Number Comments			
Small Molecules			
Thiazovivin	Stemgent	04-0017	2 µM
SB431542	Stemgent	04-0010-10	1:1,000 (10 µM)
Dorsomorphin	Stemgent	04-0024	1 µM
LDN-193189	Stemgent	04-0074-10	250 nM

Y27632 (ROCKi)	Stemgent	04-0012-10	10 μ M
Name	Company	Catalog Number	Comments
Recombinant Proteins			
DKK-1	Peptidech	120-30	200 ng/mL
Name	Company	Catalog Number	Comments
Components/Materials			
Cell Culture inserts 0.4 μ M, 30mm Diameter	Millicell	PICM0RG50	
Mouse Embryonic Fibroblasts	GlobalStem	GSC-6301G	
96 well V bottom w/Lids	Evergreen	222-8031-01V	
StemPro Accutase Cell Dissociation Reagent	ThermoFisher	A1110501	
TritonX-100	ThermoFisher	85111	
Phosphate Buffered Saline (PBS)	ThermoFisher	10010023	500 mL
Normal Donkey Serum	Jackson Labs	017-000-121	
Leibovitz's L-15 Medium	ThermoFisher	11415114	500 mL
DRAQ5 (Nuclear Marker)	ThermoFisher	65-0880-96	
MEA Plates	Axion Biosystems	M768-GL1-30Pt200	
6 well flat bottom	Falcon	353046	
Name	Company	Catalog Number	Comments
Antibody			
Nestin	Millipore	MAB5326	
Brn-2	Protein tech	14596-1-AP	
VGLUT1	Synaptic Systems	135 303	
Pax6	abcam	ab5790	
Calretinin	abcam	ab702	
Calbindin	abcam	ab11426	
CoupTFII	R&D Systems	PPH714700	
Nkx 2.1	abcam	ab12650	
Tuj1	abcam	ab41489	
Reelin	Millipore	MAB5364	
Tbr1	Millipore	MAB2261	
NFH	Dako	M0762	