

Materials List for:

A Guide to Generating and Using hiPSC Derived NPCs for the Study of Neurological Diseases

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Materials

Name	Company	Catalog Number	Comments
DMEM/F12	Life Technologies	#11330	for HES media
DMEM/F12	Life Technologies	#10565	for neural media
KO-Serum Replacement	Life Technologies	#10828	Needs to be lot tested
Glutamax	Life Technologies	#35050	
NEAA	Life Technologies	#11140	
N2	Life Technologies	#17502-048	Needs to be lot tested
B27-RA	Life Technologies	#12587-010	Needs to be lot tested
FGF2	Life Technologies	#13256-029	Resuspend in PBS + 1% BSA
LDN193189	Stemgent	#04-0074	
SB431542	Stemgent	#04-0010	
BDNF	Peprtech	#450-02	Resuspend in PBS + 0.1% BSA
GDNF	Peprtech	#450-10	Resuspend in PBS + 0.1% BSA
Dibutyl cyclic-AMP	Sigma	#D0627	Resuspend in PBS + 0.1% BSA
L-ascorbic acid	Sigma	#A0278	Resuspend in H ₂ O
STEMdiff Neural Rosette Selection Reagent	Stemcell Technologies	#05832	
Accutase	Innovative Cell Technologies	AT-104	
Collagenase IV	Life Technologies	#17104019	
CF1 mEFs	Millipore	#PMEF-CF	
Poly-L-Ornithine	Sigma	P3655	
Laminin, Natural Mouse 1 mg	Life Technologies	#23017-015	
BD Matrigel	BD	#354230	Resuspend on ice in cold DMEM at 10 mg/ml, use 1 mg per two 6-well plate equivalent
Tissue culture treated 6-well plates	Corning	3506	
Ultra low attachment 6-well plates	Corning	3471	
goat anti-Sox2	Santa Cruz	sc17320	use at 1:200
mouse anti-human Nestin	Millipore	MAB5326	use at 1:200
rabbit anti-βIII-tubulin	Covance	PRB435P	use at 1:500
mouse anti-βIII-tubulin	Covance	MMS435P	use at 1:500
mouse anti-MAP2AB	Sigma	M1406	use at 1:200
Plate centrifuge	Beckman Coulter	Beckman Coulter Allegra X-14 (with SX4750 plate carrier)	