

Materials List for:

Differentiation of Mouse Embryonic Stem Cells into Cortical Interneuron Precursors

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Materials

Name	Company	Catalog Number	Comments
Bottle-top vacuum filter system	Corning	CLS430769	
Test Tube with Cell Strainer Snap Cap	ThermoFisher	Corning 352235	
Mouse embryonic fibroblasts (CF-1 MEF IRR 7M)	MTI-Globalstem	GSC-6101G	1 vial of 7M MEFs is sufficient for four 10-cm TC plates. References: 29,35
FBS	Atlanta Biologicals	S11150H	
Primocin	Invivogen	Ant-pm-2	Also known as antimicrobial agent. Do not filter with base media -- add after filtration. References: 9,11,36,37
N2 supplement-B	Stemcell Technologies	7156	Do not filter with base media -- add after filtration
Glutamax (100x)	ThermoFisher	35050061	Also known as L-alanine-L-glutamine. References: 9,11,38,39
KnockOut Serum Replacement (KSR)	ThermoFisher	10828028	Also known as serum-free medium supplement. References: 9,11
L-glutamine (100x)	ThermoFisher	25030081	
MEM-NEAA (100x)	ThermoFisher	11140050	
2-Mercaptoethanol	ThermoFisher	21985023	
KnockOut DMEM	ThermoFisher	10829018	Also known as non-glutamine containing DMEM. References: 9,11
Hyclone FBS	VWR	82013-578	Also known as stem cell grade FBS. References: 9,11
Tissue culture treated dish (10cm)	BD Falcon	353003	
Non-adherent sterile petri dish (10cm)	VWR	25384-342	
Leukemia inhibitory factor (mLIF)	Chemicon	ESG1107	Do not freeze, store at 4°C. References: 9,11
DMEM/F12	ThermoFisher	11330032	
0.1% Gelatin Solution	ATCC	ATCC PCS-999-027	
Laminin	Sigma	L2020	
Poly-L-lysine	Sigma	P6282	
Trypsin-EDTA (0.05%)	ThermoFisher	25300054	
Accutase	ThermoFisher	A1110501	Also known as non-trypsin containing cell dissociation reagent. References: 9,11
RQ1 RNase-Free DNase	Promega	M610A	

LDN-193189	Stemgent	04-0074	Resuspend in DMSO and store at -80°C in single use aliquots
XAV939	Stemgent	04-0046	Resuspend in DMSO and store at -80°C in single use aliquots
rhFGF-2	R&D Systems	233-FB	Resuspend in PBS with 0.1% BSA and store at -80°C in single use aliquots
rhIGF-2	R&D Systems	291-G1	Resuspend in PBS with 0.1% BSA and store at -80°C in single use aliquots
ROCK inhibitor (Y-27632)	Tocris	1254	Resuspend in DMSO and store at -80°C in single use aliquots
Smoothened agonist (SAG)	Millipore	566660-1MG	Resuspend in H2O and store at -80°C in single use aliquots
rm Sonic Hedgehog/SHH	R&D Systems	464-SH-025	Resuspend in PBS with 0.1% BSA and store at -80°C in single use aliquots
PKCζ Pseudosubstrate Inhibitor, Myristoylated	EMD Millipore	539624	Resuspend in H2O and store at -80°C in single use aliquots