

Materials List for

Isolation, Expansion, and Nucleofection of Neural Stem Cells from Adult Murine Subventricular Zone

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Materials

Name	Company	Catalog Number	Comments
0.22 µm pore-filter bottles (250 mL)	VWR	514-0330P	
0.22 µm pore-filter bottles (500 mL)	VWR	514-0332P	
12-well plate	LabClinics	PLC30012	
15 mL tube	Fisher	10738771	
24-well plate	LabClinics	PLC30024	
4-(2-hydroxyethyl)-1-piperazineethanesulfonic acid (HEPES)	BioWest	L0180-100	
4',6-diamidino-2-phenylindole (DAPI)	Sigma	D9542	
48-well plate	ThermoFisher	150687	
6-well plate	LabClinics	PLC30006	
96-well plate	Labclinics	PLC30096	
Accutase solution	Sigma	A6964-100ML	Referred as enzymatic solution
Amaxa Mouse Neural Stem Cell Nucleofector Kit	Lonza	VPG-1004	
Amaxa Nucleofector lib	Lonza	10700807	
Antibiotic/Antimitotic (A/A)	Sigma	A5955	
Apo-t-Transferrine	Sigma	T2252-1G	
Basic Fibroblast Growth Factor (bFGF)	Sigma	F0291	
Blasticidin	Sigma	203350	
Bovine Serum Albumin (BSA)	Sigma	B4287-25MG	
Cell strainer 40 µm	LabClinics	PLC93040	
Deoxynucleotide triphosphate (dNTPs)	NZYTech	MB08701	
Dimethyl sulfoxide (DMSO)	Sigma	D8418	

Dulbecco's Phosphate Saline Buffer (DPBS)	Gibco	14080-055	
Dulbecco's Modified Eagle's Medium (DMEM) F12 1:1	Gibco	11320-074	
E. coli DH5α Competent Cells	ThermoFisher	EC0112	
Earles's Balanced Salt Solution (EBSS)	Gibco	24010-043	
Epidermal Growth Factor - Human recombinant (EGF)	Gibco	53003-018	
Ethylenediaminetetraacetic acid (EDTA)	Sigma	E-6511	
Fine Forceps	Fine Science Tools	11274-20	
Fine Scissors Sharp	Fine Science Tools	14060-09	
Glucose	Sigma	G-7021	
GoTaq G2 Flexi DNA Polymerase	Promega	M7805	Kit includes reagents for PCR
Heparin	Sigma	H-3149	
Insuline	Sigma	I6634	
LB agar (Lennox)	LabKem	AGLB-00P-500	
LB broth (Lennox)	LabKem	LBBR-00P-500	
L-Cysteine	Sigma	C-8277	
L-Glutamine	Gibco	25030-024	
Neubauer chamber	Blaubrand	BR718620	
Nuclease free water	Labbox	WATR-00A-10K	
NZYMaxiprep Endotoxin Free Kit	NZYTech	MB39901	
Papain Lyophilized	Worthington	LS003119	
Progesterone	Sigma	P-6149	
Putrescine	Sigma	P-7505	
Scalpel	Fine Science Tools	10316-14	
shSCRAMBLE	Mission (Sigma)	SHC003	
shSNRPN	Mission (Sigma)	TRCN0000109285	
Sodium Selenite	Sigma	S-9133	
Spatula	Fine Science Tools	10090-17	
Sterile PES Syringe Filters (0.22 μm pore-filter)	Epica	SFPE-22E-050	
T12.5 cm ² Flask	Biofil	TCF012025	
T25 cm ² Flask	LabClinics	PLC70025	
T75 cm ² Flask	LabClinics	PLC70075	
Tweezers	Fine Science Tools	91150-20	