

Materials List for:

High Throughput Characterization of Adult Stem Cells Engineered for Delivery of Therapeutic Factors for Neuroprotective Strategies

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Materials

Name	Company	Catalog Number	Comments
96 well plates	Greiner Bio One	655090	96 well plates selected for use in ImageXpress
Bovine serum albumin (BSA)	Sigma-Aldrich (St. Louis, MO)	A9647	
Rabbit anti-Ki67 antibody	Abcam (Cambridge, MA)	Ab16667	1:200 dilution
Collagen type I	Sigma-Aldrich (St. Louis, MO)	C7661	Collagen from rat tail
DAPI	Invitrogen (Carlsbad, CA)	D3571	
Donkey anti-Rabbit Cy3	Jackson Immuno Res Lab (West Grove, PA)	711-165-152	1:500 dilution
ECL(Entactin-Collagen-Laminin)	Millipore/Chemicon (Temecula, CA)	08-110	
Fetal bovine serum (FBS)	Hyclone (Logan, UT)	SH30071.03	
Equine serum	Hyclone (Logan, UT)	SH3007403	
Ethanol	Chemistry Store (Ames, IA)	12003510	100%, 200 proof
Fibronectin	Fisher Scientific (Hampton, NH)	CB-40008	
Iscove's Modified Dulbeccos Medium (IMDM)	Hyclone (Logan, UT)	SH30396.03	
KH ₂ PO ₄	Fisher Scientific (Hampton, NH)	P285	For PO ₄ buffer
K ₂ HPO ₄	Fisher Scientific (Hampton, NH)	P288	For PO ₄ buffer
L-Glutamine	Gibco/Invitrogen (Grand Island, NY)	25030-081	
Laminine (mouse)	Trevigen (Gaithersburg, MD)	3400-010-01	
Mouse MSCs of adult C57BL/6 mice	Tulane Cent for Gene Therapy (New Orleans, LA)		Isolated from bone marrow
Genetically modified MSCs (GFP, BDNF, GDNF, BDNF/GDNF)	These cells were obtained from our previous study : Ye et. al. (in preparation)		
Normal donkey serum (NDS)	Jackson Immuno Res Lab (West Grove, PA)	017-000-121	
Paraformaldehyde (PFA)	Fisher Scientific (Hampton, NH)	O4042	4% PFA in 0.1 M PO ₄ buffer
Penicillin-Streptomycin	Sigma-Aldrich (St. Louis, MO)	P0781	
Phosphate buffered saline (PBS)	Sigma-Aldrich (St. Louis, MO)	P4417	
Poly-L-lysine	Sigma-Aldrich (St. Louis, MO)	P4707	
Propidium iodide (PI)	Invitrogen (Carlsbad, CA)	P1304MP	
Triton X-100	Sigma-Aldrich (St. Louis, MO)	X100	
Trypsin 0.05% (EDTA 1x)	Invitrogen (Carlsbad, CA)	25300-054	

Iscove's Modified Dulbecco's Medium	Invitrogen (Carlsbad, CA)	12440-046	
Hybridoma-qualified FBS	Hyclone (Logan, UT)	SH30396.03	
Equine serum	Hyclone (Logan, UT)	SH3007403	
ImageXpress Micro	Molecular devices (Sunnyvale, CA)	ImageXpress micro	High content screening system
MetaXpress 4.0	Molecular devices (Sunnyvale, CA)	MetaXpress 4.0	Image acquisition and analysis software