

Materials List for:

# Feeder-free Derivation of Neural Crest Progenitor Cells from Human Pluripotent Stem Cells

Nadja Zeltner<sup>1</sup>, Fabien G. Lafaille<sup>2</sup>, Faranak Fattahi<sup>1</sup>, Lorenz Studer<sup>1</sup>

<sup>1</sup>Developmental Biology, Center for Stem Cell Biology, Sloan-Kettering Institute for Cancer Research

<sup>2</sup>St. Giles Laboratory of Human Genetics of Infectious Diseases, The Rockefeller University

Correspondence to: Nadja Zeltner at [zeltner@mskcc.org](mailto:zeltner@mskcc.org)

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## Materials

Name	Company	Catalog Number	Comments
DMEM	Gibco-Life Technologies	11965-092	
Fetal Bovine Serum (FBS)	Atlanta Biologicals	S11150	
DMEM/F12	Gibco-Life Technologies	11330-032	
Knockout Serum Replacement	Gibco-Life Technologies	10828-028	Lot should be tested
L-Glutamine	Gibco-Life Technologies	25030-081	
Penicillin/Streptomycin	Gibco-Life Technologies	15140-122	
MEM minimum essential amino acids solution	Gibco-Life Technologies	11140-050	
β-Mercaptoethanol	Gibco-Life Technologies	21985-023	toxic
Recombinant human FGF basic (FGF2)	R&D Systems	233-FB-001MG/CF	
Knockout DMEM	Gibco-Life Technologies	10829-018	
DMEM/F12 powder	Invitrogen	12500-096	
Glucose	Sigma	G7021	
Sodium Bicarbonate	Sigma	S5761	
APO human transferrin	Sigma	T1147	
Human insulin	Sigma	I2643	
Putriscine dihydrochloride	Sigma	P5780	
Selenite	Sigma	S5261	
Progesterone	Sigma	P8783	
Matrigel matrix	BD Biosciences	354234	
Poly-L Ornithin hydrobromide	Sigma	P3655	
Mouse Laminin-I	R&D Systems	3400-010-01	
Fibronectin	BD Biosciences	356008	
Dispase in Hank's Balanced Salt Solution 5 U/ml	Stem Cell Technologies	7013	
Trypsin-EDTA	Gibco-Life Technologies	25300-054	
Y-27632 dihydrochloride	Tocris-R&D Systems	1254	
LDN193189	Stemgent	04-0074	
SB431542	Tocris-R&D Systems	1614	
Accutase	Innovative Cell Technologies	AT104	
Ascorbic Acid	Sigma	A4034	
BDNF	R&D Systems	248-BD	
FGF8	R&D Systems	423-F8	

Mouse recombinant sonic hedgehog (SHH)	R&D Systems	464SH	
HBSS	Gibco-Life Technologies	14170-112	
HEPES	Gibco-Life Technologies	1563-080	
Human recombinant EGF	R&D Systems	236EG	
gelatin (PBS without Mg/Ca)	in house		
Antibodies:			
Anti HNK-1/N-Cam (CD57) mIgM	Sigma	C6680-100TST	lot should be tested
Anti-p75 mIgG1 (Nerve Growth factor receptor)	Advanced Targeting Systems	AB-N07	lot should be tested
APC rat anti-mIgM	BD Pharmingen	550676	lot should be tested
AlexaFluor 488 goat anti-mouse IgG1	Invitrogen	A21121	lot should be tested
Anti Oct4 mIgG2b (used at 1:200 dilution)	Santa Cruz	sc-5279	lot should be tested
Material/Equipment:			
Mouse embryonic fibroblasts (7 million cells/vial)	GlobalStem	GSC-6105M	
Cell culture dishes: 10 cm and 15 cm plates, centrifuge tubes, FACS tubes, pipettes, pipette tips			
Glass hematocytometer			
Cell culture centrifuge			
Cell culture incubator (CO <sub>2</sub> , humidity and temperature controlled)			
Cell culture laminar flow hood with embedded microscope			
Cell culture biosafety hood			
Cell sorting machine, <i>i.e.</i> MoFlo			
Inverted microscope			
1 ml TB syringe 27Gx1/2	BD Biosciences	309623	
Cell lifter Polyethylene	Corning Incorporated	3008	