

Materials List for:

Progenitor-derived Oligodendrocyte Culture System from Human Fetal Brain

Maria Chiara G. Monaco¹, Dragan Maric², Alexandra Bandean¹, Emily Leibovitch¹, Wan Yang¹, Eugene O. Major¹

¹Laboratory of Molecular Medicine and Neuroscience, National Institute of Neurological Disorders and Stroke, National Institutes of Health

²Laboratory of Neurophysiology, National Institute of Neurological Disorders and Stroke, National Institutes of Health

Correspondence to: Eugene O. Major at majorg@ninds.nih.gov

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Materials

Name	Company	Catalog Number	Comments
DME/HAMS F12 1:1	Omega Scientist	DM-251	1X
Bovine Albumin	Sigma	A9418	1%
Gentamicin	Quality Biologicals	120-098-031	50 µg/ml
L-Glutamine	Quality Biologicals	118-084-061	2 mM
T3	Sigma	T2877	3 nM
N2 Components	Gibco BRL	17502	1:100
NT-3	PeproTech Inc	450-03	2 ng/ml
Shh	R&D System	1314-SH/CF	2 ng/ml
bFGF	PeproTech Inc	100-18B	20 ng/ml
PDGF-AA	PeproTech Inc	100-13A	10 ng/ml
PDL	Sigma	P6407	50 µg/m
PFA	Electron Microscopy Sciences	15712	2%
Trypsin	Quality Biologicals	118-087-721	
Papain	Worthington	LK003178	20 U/ml
DNase vials	Worthington	LK003172	0.005%
EBSS	Worthington	LK003188	
ProLong Gold with DAPI	Invitrogen	P36931	

Table 1. Reagents.

Primary Abs(all at 1 µg/ml)		Species Isotype	Source	Secondary Abs
Flow Cytometry				
A2B5-Biotin	Mouse	IgM	Gift J. Nielson	Streptavidin PETR, Invitrogen, CA
O4FITC	Mouse	IgM	Gift from J. Nielson	
A2B5	Mouse	IgM	Millipore, MA	gam IgM-FITC, Invitrogen, CA
O4	Mouse	IgM	Millipore, MA	gam IgM-FITC, Invitrogen, CA
GalC	Mouse	IgG ₃	Millipore, MA	gam IgG ₃ -PE, Southern Biotech, AL
MBP	Chicken	IgY	Millipore, MA	dack IgY-AMCA, Jackson Immu., PA
Nestin	Mouse	IgG ₁	Messam <i>et al.</i> 2000 ²⁸	gam IgG ₁ -PECy5, Invitrogen, CA

GFAP	Rabbit	IgG	Millipore, MA	garb IgG-PE, Jackson Imm, PA
β III tubulin	Mouse	IgG ₂	Covance, CA	gam IgG _{2a} -PETR, Invitrogen, CA
Immunocytochemistry				
β III tubulin (1:1,500)	Mouse	IgG _{2a}	Covance, CA	gam IgG _{2a} -FITC, Invitrogen, CA (1:1,000)
GFAP (1:1,000)	Rabbit	IgG	Millipore, MA	garb IgG-FITC, Jackson Imm, PA (1:500)
MBP (1:50)	Chicken	IgY	Millipore, MA	dack IgY-FITC, Jackson Imm, PA (1:100)
O4 (1:100)	Mouse	IgM	Millipore, MA	gam IgM-AF546, Invitrogen, CA (1:100)
GalC (1:10)	Rabbit	IgG	Millipore, MA	gam IgM-AF750, Invitrogen, CA (1:100)

Table 2. Antibodies (Abs) used for flow cytometry and immunocytochemistry assays. **Antibody conjugates:** PE, phyc-rythrin; PETR, phyc-rythrin Texas Red; AMCA, amino-methyl-coumarin-acetate; Cy, cyanine; FITC, fluorescein isothiocyanate. **Ig:** immunoglobulin. **AF:** Alexa Fluor; gam: goat anti-mouse; garb: goat anti-rabbit; dack: donkey anti-chicken.