

Materials List for:

Preparation of Rat Oligodendrocyte Progenitor Cultures and Quantification of Oligodendrogenesis Using Dual-infrared Fluorescence Scanning

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Materials

Name	Company	Catalog Number	Comments
Dissection Materials			
PBS without Ca ²⁺ and Mg ²⁺	Mediatech	21-040-CV	1x
10 cm Polystyrene Petri Dishes	Fisherbrand	0857512	
Light Dissection Microscope	Motic	SM2-168	
Dissociation Materials			
Tube Rotator	Miltenyi Biotec	130-090-753	Dissociation Tube Rotator
Neural Tissue Dissociation Kit (P)	Miltenyi Biotec	130-092-628	Enzymatic Dissociation Kit
PBS with Ca ²⁺ and Mg ²⁺	Corning	20-030-CV	1x
40 µm Cell Strainer	Corning	352340	
A2B5 Column Purification			
Anti-A2B5 Microbeads	Miltenyi Biotec	130-097-864	Bead Bound A2B5 Antibody
LS Columns	Miltenyi Biotec	130-042-401	Magnetic Selection Columns
EDTA	Corning	46-034-CI	2 mM
PBS with Ca ²⁺ and Mg ²⁺	Corning	20-030-CV	1x
Bovine Serum Albumin	Sigma-Aldrich	A9647	0.50%
Culture Materials			
PDGF-AA	PeptoTech Inc	100-13A	20 ng/ml
Dimethyl sulfoxide	Sigma-Aldrich	D2650	Hybri-Max 100 ml
Triiodothyronine	Sigma-Aldrich	T6397	45 nM
Clemastine fumarate salt	Sigma-Aldrich	SML0445-100MG	1 µM
Quetiapine hemifumarate salt	Sigma-Aldrich	Q3638-10MG	1 µM
N-acetyl cysteine	Sigma-Aldrich	A9165	5 µg/ml
Progesterone	Sigma-Aldrich	P8783	60 ng/ml
Poly-L-lysine	Sigma-Aldrich	P1524	10 µg/ml
Putrecine	Sigma-Aldrich	P7505	16 µg/ml
Sodium Selenite	Sigma-Aldrich	S5261	40 ng/ml
Hydrocortisone	Sigma-Aldrich	H0135	50 ng/ml
d-Biotin	Sigma-Aldrich	B4639	10 ng/ml
Insulin	Sigma-Aldrich	I6634	5 µg/ml
Apo-Transferrin	Sigma-Aldrich	T1147	100 µg/ml
Bovine Serum Albumin	Sigma-Aldrich	A4161	100 µg/ml
Trace Elements B	Corning	25-022-CI	1x

B-27 Supplement	Life Technologies	17504044	1x
Penicillin/Streptomycin	Life Technologies	15140122	1x
DMEM	Life Technologies	11995-065	1x
24-well Black Visiplate with lid	Perkin Elmer	1450-605	Tissue culture grade
Immunocytochemistry and Quantification			
PFA	Sigma-Aldrich	100-13A	4%
Triton X-100	Sigma-Aldrich	78787	0.10%
Normal Goat Serum	Jackson Immuno Research	005-000-121	5%
mouse monoclonal anti-MBP	Biolegend	SMI-99P	1:1,000 Dilution
rabbit polyclonal anti-Actin	Santa Cruz Biotechnology	SC-7210	1:200 Dilution
rabbit polyclonal anti-Olig2	Millipore	AB9610	1:1,000 Dilution
goat anti-mouse 680RD	Licor	926-68070	1:500 Dilution
goat anti-rabbit 800CW	Licor	926-32211	1:500 Dilution
Alexa Fluor 594 goat anti-mouse	Life Technologies	A11032	1:1,000 dilution
Alexa Fluor 488 goat anti-rabbit	Life Technologies	A11008	1:1,000 dilution
Prolong Gold antifade with DAPI	Life Technologies	P36931	
DPBS with Ca ²⁺ and Mg ²⁺	Corning	21-030-CV	
Licor Odyssey Clx Infrared Imaging System	Licor		