

Materials List for:

Isolation of Cortical Microglia with Preserved Immunophenotype and Functionality From Murine Neonates

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Materials

Name	Company	Catalog Number	Comments
Glucose	Sigma	G8270	Make 20% Stock Solution with MilliQ water; filter sterilize; store at 4 °C; shelf life: 3-6 months. Used to make MCM and MGM.
Sodium pyruvate 100 mM (100x)	Hyclone	SH30239.01	Store at 4 °C. Used to make MCM and MGM.
Penicillin/Streptomycin 10,000 units/ml (100x)	Gibco	15140-122	Store at -20 °C. Used to make MCM, MGM, MM, and DM.
L-Glutamine 200 mM (100x)	Gibco	25030-081	Store at -20 °C. Used to make MCM and MGM.
Fetal Bovine Serum (Defined)	Hyclone	SH30070.03	Filter sterilize; store at -20 °C. Used to make MCM and MGM.
Minimum Essential Medium Earle's (MEM)	Cellgro	15-010-CV	Without L-glutamine. Contains Earle's salts. Used to make MCM, MGM, and DM.
Horse Serum	Gibco	16050	Filter sterilize; store at -20 °C. Used to make MCM and MGM.
Hanks' Balanced Salt Solution (HBSS)	Cellgro	21-021-CV	Without calcium and magnesium. Store at 4 °C. Used to make MM.
HEPES 1 M	Gibco	15630-031	Store at 4 °C. Used to make MM.
T-75 Flask	Corning	430641	
4',6-Diamidino-2-phenylindole, dilactate (DAPI)	Invitrogen	D3571	Used to stain cell nucleus.
Rabbit anti-Iba1	Wako	019-19741	Used at 1/750 dilution for ICC staining of Iba1.
Rabbit anti-NFκB (p65)	Abcam	7970	Used at 1/1,250 dilution for ICC staining for p65.
Alexa Fluor 594 Goat anti-Rabbit IgG (H+L)	Invitrogen	A11012	Used at 1/1,000 dilution for visualization of antigen:antibody complex in ICC.
10 ml Disposable Serological Pipet	Fisher Scientific	13-678-11E	
50 ml Disposable Centrifuge Tube	Fisher Scientific	05-539-8	
15 ml Disposable Centrifuge Tube	Fisher Scientific	05-539-12	
Sterile Polystyrene Petri Dish	Fisher Scientific	875713	100 mm x 15 mm
Scissor: Straight Metzemabaum (scissor #1)	Roboz Surgical	RS-6010	1; 5 in; used for removing head
Scissor: Vannas (scissor #2)	Fine Science Tools	15000-08	1; nonangled; 2.5 mm cutting edge; used to open scalp
Scissor: Student Vannas (scissor #3)	Fine Science Tools	91501-09	1; curved; used to mince brain tissue

Forcep: Dumont #7 (forcep #1)	Fine Science Tools	91197-00	2; used to secure nose and remove cortices
Forcep: Dumont #2 (forcep #2)	Fine Science Tools	11223-20	1; used to remove scalp
Forcep: Dumont #3 (forcep #3)	Fine Science Tools	11231-30	1; used to remove skull
Forcep: Dumont #5a (forcep #4)	Fine Science Tools	11253-21	1; used to remove meninges
Table of Specific Equipment			
Zoom Stereo Dissection Microscope	Olympus	SZ4060	Microscope is placed inside Laminar-Horizontal Flow Cabinet
Laminar-Horizontal Flow Cabinet	Nuaire	NU-201-330	
Biological Safety Cabinet	Labconco	3440001	Class II
Water-Jacketed CO ₂ Incubator	VWR	97025-836	Set to 37 °C, 5% CO ₂
Swing-out buckets	Fisher Scientific	75006441	To be used with Swing-out rotor
Swing-out Rotor	Fisher Scientific	75006445	Max Radius: 19.2 (cm)
Sorvall Legend RT+ Centrifuge (clinical centrifuge)	Fisher Scientific	75-004-377	With swing-out rotor
AccuSpin Micro 17 microcentrifuge (tabletop microcentrifuge)	Fisher Scientific	S98645	With microliter rotor (24 x 1.5/2.0 ml; Cat #: 75003524)