

Materials List for:

Isolation and Flow Cytometric Analysis of Glioma-infiltrating Peripheral Blood Mononuclear Cells

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Materials

Name	Company	Catalog Number	Comments
Dulbecco's Modification of Eagles Medium	Gibco	12430-054	with 4.5g/L D-glucose, L-glutamine, 25 mM HEPES and phenol red
Dulbecco's Phosphate-buffered Saline	Gibco	14190-144	without calcium chloride or Magnesium chloride
Fetal bovine serum	Omega Scientific Inc.	FB-11	
Penicillin Streptomycin	Gibco	15140-122	10,000 U/ml Penicillin; 10,000 µg/ml Streptomycin
L-glutamine	Gibco	25030-081	200 mM
G418 sulfate	Omega Scientific Inc.	GN-04	
Puromycin dihydrochloride	Sigma-Aldrich	P8833	from Streptomyces alboniger
HyClone HyQTase non-mammalian trypsin alternative	Thermo Scientific	SV30030.01	in DPBS with EDTA
Phase contrast hemocytometer	Sigma-Aldrich	Z359629	0.1 mm deep
Trypan blue stain	Gibco	15250-061	
Sterile 0.9% NaCl injection, USP	Hospira	NDC: 0409-4888	10 ml vials
0.6 ml conical polypropylenemi microtubes	Genesee Scientific	22-272	
Atipamezole hydrochloride injection	Orion Pharma	NDC: 52483-6298	5 mg/ml solution
Ketamine hydrochloride injection	Fort Dodge	NDC: 0409-2051	100 mg/ml solution
Dexmedetomidine hydrochloride injection	Zoetis	NDC: 54771-2805	0.5 mg/ml solution
Xylazine hydrochloride injection	Lloyd	NDC: 61311-481	100 mg/ml solution
Carprofen injection	Pfizer	NDC: 61106-8501	50 mg/ml solution
Buprenorphine hydrochloride injection	Reckitt Benckiser	NDC: 12496-0757	0.3 mg/ml ampuls
1 ml tuberculin syringes	Covidien	8881501400	
26G x ½ (0.45 mm x 13 mm) syringe needles	BD	305111	
Surgical clippers	3M	9661	
Providone-iodine solution	Aplicare	82-217	NDC: 52380-1905
Sterile petrolatum ophthalmic ointment	Dechra	NDC: 17033-211	
70% isopropyl alcohol prep pads	Kendall	6818	
Sterile gauze	Covidien	8044	non-woven, 4" x 4", 4-ply
1.7 ml conical polypropylene microtubes	Genesee Scientific	22-281	

Mouse stereotactic frame	Stoelting	51730	
Surgical lamp	Philips Burton	CS316W	Coolspot II Variable Spotlight
Curved dissecting forceps	Ted Pella Inc.	5431	
Colibri retractors	FST	17000-03	
Cordless precision power drill	Dremel	1100-01	Stylus model; 7.2-Volt Lithium-Ion with Docking Station
Engraving Cutter	Dremel	105	1/32" or 0.8 mm bit diameter
Microliter syringe	Hamilton	75	Hamilton Microliter Syringes 700 series; 5 µl volume
Microliter syringe needles	Hamilton	7762-06	33 G, small hub RN NDL, 1.5 in, point style 3, 6/PK
Ethilon 3-0 black monofilament nylon sutures	Ethicon	1663	
Magnetic stir bar	VWR	74950-296	7.9 mm diameter x 50 mm length (5/16" diameter x 2" length)
1 L glass screw-cap storage bottle	Corning	1395	Type 1, Class A borosilicate glass
Heparin sodium	Sagent	NDC: 25021-400	1,000 U/ml solution
Peristaltic pump	Cole Parmer Instruments Group	77200-60	Master Flex Easy Load II console drive
compressed carbogen (95% O ₂ / 5% CO ₂)	available from local vendor	N/A	A-type, large cylinder
20 G x 1 1/2" aluminum hub blunt needles	Kendall	8881202363	0.9 mm x 38.1 mm
Polyurethane ice bucket	Fisherbrand	02-591-45	Capacity: 0.152 oz. (4.5L)
Collagenase (Type I-S)	Sigma Aldrich	C1639	from Clostridium histolyticum
Deoxyribonuclease I	Worthington Biochemical Corp.	LS002007	>2,000 Kunitz units per mg dry weight
Antistatic polystyrene hexagonal weighing dishes	Ted Pella Inc.	20157-3	top I.D. 115 mm, base I.D. 85 mm, 203 ml volume
Stainless steel single edged razor blades	Garvey	40475	
Bone rongeurs	FST	16001-15	
Hemostat	FST	13014-14	
Large dissection scissors	Ted Pella Inc.	1316	
Small dissection scissors	FST	14094-11	
Blunt end forceps	Ted Pella Inc.	13250	
7 ml glass Dounce tissue grinder	Kontes	KT885300-0007	
Percoll Density Centrifugation Media	GE Healthcare	GE17-0891-01	
10 ml serological pipettes	Genesee Scientific	12-104	single use; sterile
70 µm sterile nylon mesh cell strainers	Fisherbrand	22363548	
Alexa Fluor 700-conjugated rat anti-mouse CD45 (clone: 30-F11)	Biolegend	103128	
APC-conjugated mouse anti-mouse NK1.1 (clone: PK136)	eBiosciences	17-5941-82	
PE-conjugated rat anti-mouse Gr-1 (clone:RB6-8C5)	BD Pharmigen	553128	
PerCP/Cy5.5-conjugated rat anti-mouse CD11b (clone: M1/70)	Biolegend	101228	

Alexa Fluor 700-conjugated rat IgG2b, κ (clone: RTK4530) isotype control	Biolegend	400628	
APC-conjugated mouse IgG2a, κ (clone: eBM2a) isotype control	eBioscience	17-4724	
PE-conjugated rat IgG2b, κ (clone: eB149/10H5) isotype control	eBioscience	12-4031-82	
PerCP/Cy5.5-conjugated rat IgG2b, κ (clone: RTK4530) isotype control	Biolegend	400632	
Pacific Blue-conjugated mouse anti-mouse granzyme B (Clone: GB11)	Biolegend	515403	
Pacific Blue-conjugated mouse IgG1, κ (Clone: MOPC-21) isotype control	Biolegend	400151	
Cytofix/Cytoperm	BD	554714	
15 ml polypropylene centrifuge tubes	Genesee Scientific	21-103	conical bottom
50 ml polypropylene centrifuge tubes	Genesee Scientific	21-108	conical bottom
12 mm x 75 mm round-bottom polypropylene FACS tubes	Fisherbrand	14-956-1B	
FACSAria Special Order Research Product flow cytometer/cell sorter	BD	650033	
Class II Biological Safety Cabinet	The Baker Company	SG603	model: SteriGARD III Advance