

Materials List for:

Primary Cell Culture of Purified GABAergic or Glutamatergic Neurons Established Through Fluorescence-activated Cell Sorting

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URL: <https://www.jove.com/video/58974>

DOI: [doi:10.3791/58974](https://doi.org/10.3791/58974)

Materials

Name	Company	Catalog Number	Comments
Neural Basal A media (NBA)	ThermoFisher Scientific	10888022	Cell Culture Buffer
B27	ThermoFisher Scientific	17504001	Culture supplement
Glutamax	ThermoFisher Scientific	35050-038	Culture supplement
Penicillin-Streptomycin (10,000 U/ mL)	ThermoFisher Scientific	15140-122	Antibiotic
Poly-L-Lysine	SIGMA	P1399	Coverslip coating
Papain	SIGMA	P4762-1G	Enzyme
Bovine Serum Albumin	SIGMA	A3294-100G	Serum
Hibernate A low fluorescence media	Brain Bits Ltd	HALF	Cell Transport media
Dulbeccos Modified Eagles Medium (DMEM)	Biochrom	F0435	Glial Culture Buffer
Fetal Calf Serum (FCS)	Biochrom	S0115	Serum
Trypsin/EDTA	Biochrom	L2163	Enzyme
Fine Tip Pasteur Pipette	Neo Labs	-	Used for trituration of cells
24-well plates	BD	353047	Culture plate
50 mL Falcon tubes	BD	352070	-
15 mL Falcon tubes	BD	352096	-
Glass coverslips: 12 mm round	Roth	P231.1	-
35 mm Petri dish	Corning	353001	-
100 mm Petri dish	Corning	353003	-
30 µm CellTrics Cell Sieve	sysmex	04-004-2326	To remove cell clumps before cell sorting
Round bottom polystyrene tubes	BD	352054	Transport tube for sorted cells
Round bottom polypropylene tubes	BD	352063	Collection tube for sorted cells
Cell culture inserts – 0.4 µm transparent PET	Falcon	353 095	For the co-culture of neurons and glia
Extra fine Bonn Scissors	Fine Scientific Tools	14084-08	To remove overlying skin and bone of mice
Extra narrow Scissors	Fine Scientific Tools	14088-10	To remove overlying skin and bone of rats
Forceps	Fine Scientific Tools	11242-40	To hold the head in place
Spatula (130 mm long/5 mm tip width)	Fine Scientific Tools	3006.1	To remove the brain to filter paper

Scalpel Blades	Swan-Morton	#0308	To mechanically dissociate neural tissue
Haemocytometer (Neubauer Improved)	Optik Labor	-	To cell count dissociated cells
Fluorescent Miners Goggles (excitation light)	Biological Laboratory Equipment Maintenance and Service Ltd (BLS)	FHS/LS-1G	To excite TdTomato
Fluorescent Miners Goggles (emission filter)	Biological Laboratory Equipment Maintenance and Service Ltd (BLS)	FHS/EF-4R2	Td Tomato compatible emission filter
Fluorescent Miners Goggles (excitation light)	Biological Laboratory Equipment Maintenance and Service Ltd (BLS)	FS/ULS-02B2	To excite Venus
Fluorescent Miners Goggles (emission filter)	Biological Laboratory Equipment Maintenance and Service Ltd (BLS)	FS/TEF-3GY1	Venus compatible emission filter
Mouse-Anti-GFP primary antibodies	UC Davis	75-132	To enhance Venus signal following fixation
Mouse-Anti-GFAP primary antibodies	SIGMA	G-3893	The identification of reactive astrocytes
Rabbit-Anti-CD11b primary antibodies	Southern Biotech	1561-15	The identification of microglial cells
Rabbit-Anti-MBP primary antibodies	Millipore	AB980	The identification of oligodendrocytes