

Materials List for

Maintaining Human Glioblastoma Cellular Diversity *Ex vivo* using Three-Dimensional Organoid Culture

Swetha J. Sundar¹, Sajina Shakya², Violette Recinos¹, Christopher G. Hubert²

¹Department of Neurological Surgery, Cleveland Clinic ²Cardiovascular and Metabolic Sciences, Lerner Research Institute, Cleveland Clinic

Corresponding Author

Christopher G. Hubert

hubertc@ccf.org

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jove.com/video/63745

Materials

Name	Company	Catalog Number	Comments
3,3-Diaminobenzidine (DAB) tablets	MP Biomedicals	08980681	3,3-Diaminobenzidine (DAB) tablets
96-well PCR plates	ThermoFisher Scientific		96-well PCR plates
Accutase	ThermoFisher Scientific	SCR005	Cell detachment solution
Antibiotic-antimycotic	ThermoFisher Scientific	15240062	Antibiotic-antimycotic
B-27 supplement minus vitamin A	ThermoFisher Scientific	12587001	B-27 supplement minus vitamin A (50x)
GelCode Blue Stain Reagent	ThermoFisher Scientific	24590	Bluing reagent
Cell strainer (70 µm)	CellTreat Scientific	229483	Cell strainer (70 µm)
CellTiter-Glo 3D	Promega	G9681	Luminescent cell viability assay
Clarifier 2	ThermoFisher Scientific	7301	Nuclear hematoxylin clarifying reagent
Clear-Rite 3	ThermoFisher Scientific	6901	xylene substitute
Epredia Gill 2 Hematoxylin	ThermoFisher Scientific	72504	Hematoxylin
Glutamine in 0.85% NaCl	ThermoFisher Scientific	35050061	Glutamine in 0.85% NaCl (200 mM)
Matrigel	ThermoFisher Scientific	354234	Laminin-enriched extracellular matrix
Mini PAP pen	ThermoFisher Scientific	008877	Hydrophobic barrier pen
Mounting medium	ThermoFisher Scientific	22-050-102	Mounting medium
Neurobasal media minus phenol red	ThermoFisher Scientific	12349015	Neurobasal media minus phenol red (500 mL)
Normal donkey serum (NDS)	Jackson ImmunoResearch	017-000-121	Normal donkey serum (NDS)
Paraformaldehyde 4% in PBS	ThermoFisher Scientific	AAJ19943K2	Paraformaldehyde 4% in PBS
Phenol red	Sigma	P0290	Phenol red (0.5%)
ProLong Gold Antifade Mountant with DAPI	ThermoFisher Scientific	P10144	Liquid curing mountant
Recombinant human EGF protein	R&D systems	236-EG-01M	Recombinant human EGF protein (250 µg/mL)
Recombinant human FGF basic	R&D systems	4144-TC-01	Recombinant human FGF basic (250 µg/mL)
SignalStain Antibody Diluent	Cell Signaling	8112	Antibody diluent

SignalStain Boost IHC Detection Reagent	Cell Signaling	8114	Immunohistochemistry detection reagent
SignalStain Citrate Unmasking Solution	Cell Signaling	14746	Citrate unmasking solution
Single edge razor blade	Uline	H-595B	Single edge razor blade
Sodium pyruvate	ThermoFisher Scientific	11360070	Sodium pyruvate (100 mM)
Tissue-Tek Cryomolds	VWR	25608-916	Disposable cryomolds
Tissue-Tek O.C.T. Compound	VWR	25608-930	Optimal cutting temperature compound
Trypan Blue Stain	ThermoFisher Scientific	T10282	Cell impermeant stain (0.4%)
Xylene	ThermoFisher Scientific	X3P-1GAL	Xylene