

Cultivating *Ex Vivo* Patient-Derived Glioma Organoids Using a Tissue Chopper

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Materials

Name	Company	Catalog Number	Comments
2-mercaptoethanol (1000x)	Gibco	21985023	
30% formaldehyde methanol-free	Carl Roth	4235.1	Used in 4% concentration
70% ethanol solution			For sterilisation
Agarose tablets 0.5 g	Carl Roth	HP67.7	
Amphotericin B 250 µg/mL	Gibco	15290018	
Anatomical forceps	Hartstein	N/A	
Anatomical spatula	Hartstein	N/A	
B-27 Supplement without vitamin A (50x)	Gibco	12587010	
Biopsy cassette with cover	Resolab	37001-b	
Blades for Mcllwain Tissue Chopper	Campden instruments	Model TC752-1	
CC3 antibody (Asp 175)	Cells signaling technology	9661	
Disposable scalpel	Feather	0200130015	
Distilled water	Gibco	15230089	To dilute the formaldehyd
Dulbecco's Modified Eagle Serum Nutrient Mixture (DMEM) F-12 (1:1) (1x)	Gibco	11330032	Includes L-Glutamine and 15 mM HEPES
Dulbecco's Phosphate Buffered Saline (PBS)	Sigma Life Sciences	D8537-500ML	Modified, without calcium, chloride and magnesium chloride, liquid, sterile-filtered, suitable for cell culture
eBioscience 1x RBC Lysis Buffer	Invitrogen	433357	
Falcon tube 50 ml Cellstar	Greiner Bio-One	227261	
GFAP antibody	Santa Cruz Biotechnology	sc33673	
Glass beaker	N/A	N/A	
Glass petri dish	N/A	N/A	

GlutaMAX (100x)	Gibco	35050061	
Heracell 240i CO2 Incubator	Thermo scientific	51032875	
Herasafe 2025 Biological Safety Cabinet	Thermo scientific	5016643	
Hibernate-A	Gibco	A1247501	
Histoacryl glue	B. Braun surgical	1050052	
Human Insulin, Solution	Santa Cruz Biotechnology	sc-360248	
Ice box	N/A	N/A	
Ki67 antibody	Abcam	ab16667	
Mcllwain Tissue Chopper	Cavey Laboratory Engineering	51350V	
Microscope Leica DMI 3000B, DMI 4000B, DMI 6000B	Leica	DMI6000B	For brightfield and immunofluorescence pictures
Microscope stereozoom S9D	Leica	W841832	For manual cutting and to organoids monitoring
Microwave	Bosch	N/A	To heat the agarose solution
Mounting plastic discs	Cavey Laboratory Engineering	51354	
N-2 Supplement (100x)	Gibco	17502048	
NEM Non-Essential Amino Acids (NEAA) (100x)	Gibco	11140050	
Neurobasal (1x)	Gibco	21103049	
Orbital shaking machine Rotamax120	Heidolph	10304491	
Penicilin Streptomycin	Gibco	15140122	
Plastic petri dishes Cellstar	greiner bio-one	628160	n = 12
Single channel pipette 1000 µm	Eppendorf	4924000010	
Single channel pipette 5000 µm	Eppendorf	EP3123000276	
Statistical Package for the Social Sciences (SPSS) version 23.0	IBM		
Surgipath Paraplast	Leica	39601006	Embedding medium
Ultra-low attachment Nucleon Sphera 6-well plate	Thermo Scientific	174932	