

Materials List for:

An Efficient and Flexible Cell Aggregation Method for 3D Spheroid Production

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Materials

Name	Company	Catalog Number	Comments
Buffers			
10x Phosphate buffered saline	Thermo Fisher Scientific	AM9625	
Calcium Chloride Solution	Sigma-Aldrich	21114	Used for PBS ⁺ wash buffer; Do not autoclave PBS ⁺ wash buffer upon addition of calcium chloride
Magnesium Chloride Solution	Sigma-Aldrich	M1028	Used for PBS ⁺ wash buffer; Do not autoclave PBS ⁺ wash buffer upon addition of magnesium chloride
Name	Company	Catalog number	Comments
For Spheroid Formation			
96-well U-bottom Cell-Repellent Plate	Greiner Bio-One	650970	
Dulbecco's Modified Eagle's Medium	Sigma-Aldrich	D5546	For culturing SH-SY5Y, PANC-1, TPC-1 cell lines
F12K Medium	Thermo Fisher Scientific	2112722	For culturing TT cell line
Fetal Bovine Serum	Sigma-Aldrich	F1051	Filter prior to use to remove particulate contaminants
Methyl cellulose	Sigma-Aldrich	M7027	Prepare in water to 100 mg/mL
Roswell Park Memorial Institute Medium	Sigma-Aldrich	R8758	For culturing HCT-116, BxPC-3 cell lines
TrypLE Express	Thermo Fisher Scientific	12605028	Dissociation buffer
Name	Company	Catalog number	Comments
For Invasion Assay			
Bovine Type I Collagen	Corning Incorporated	354231	Stock 3.1 mg/mL; Maintain on ice when in use
DMEM Phenol Red Free Low Glucose	Thermo Fisher Scientific	11054-20	Less background fluorescence compared to Phenol Red supplemented medium
Glial Cell Line Derived Neurotrophic Factor	Peprtech	450-10	Chemoattractant
Name	Company	Catalog number	Comments
For Immunofluorescence Microscopy			
#1.5 Coverglass	Electron Microscopy Sciences	72225-01	For mounting excised spheroids
Alexa-Fluor 488 Phalloidin	Thermo Fisher Scientific	A12379	Used to stain actin at 1:200
Bovine Serum Albumin	Bioshop Canada Incorporated	ALB001	Used in BSA blocking buffer
Dabco 33-LV	Sigma-Aldrich	290734	Antifade

Glycerol	Bioshop Canada Incorporated	GLY001	Used in MOWIOL mounting medium
ImageJ Software	Freeware, NIH	-	Used for image analysis
Microslides	VWR International	48312-024	For mounting excised spheroids
MOWIOL 4-88	EMD-Millipore	475904	Used in MOWIOL mounting medium
Paraformaldehyde	EMD-Millipore	PX0055-3	Used in fixation buffer
Triton X-100	Bioshop Canada Incorporated	TRX777	Used in permeabilization buffer