

Cell Patterning Using Magnetic-Archimedes Strategy

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Materials

Name	Company	Catalog Number	Comments
A2780 ovarian cancer cells	Procell	CL-0013	
Cell culture medium (DMEM, high glucose)	Gibco	11995040	
Cover slides	Citotest Scientific	80340-3610	For fabricating microfluidics. Dimension: 24 mm × 50 mm
DiD	MedChemExpress (MCE)	HY-D1028	For labeling cells with red fluorescence (Ex: 640 nm)
DiI	MedChemExpress (MCE)	HY-D0083	For labeling cells with orange fluorescence (Ex: 550 nm)
Fetal Bovine Serum (FBS)	Biochannel	BC-SE-FBS07	
Gadopentetate dimeglumine (Gd-DTPA)	Beijing Beilu Pharmaceutical	H10860002	
Gelatin	Sigma Aldrich	V900863	
Glass cell slides	Citotest Scientific	80346-2510	Diameter: 25 mm; thickness: 0.19-0.22 mm
Glass plates	PURESHI hardware store		For fabricating microfluidics. Dimension: 40 mm × 75 mm
Human Umbilical Vein Endothelial Cells (HUVECs)	Servicebio	STCC12103G-1	
Neodymium-iron-boron magnets (N52)	Lalaci		
Non-toxic glass plate coating (Gel Slick Solution)	Lonza	1049286	For convenience of demolding when fabricating microfluidics
Phosphate Buffered Saline (PBS)	Servicebio	G4200	
Plasma cleaner	SANHOPTT	PT-2S	
Polydimethylsiloxane (PDMS) kit	DOWSIL	SYLGARD 184 Silicone Elastomer Kit	For fabricating microfluidics
Polytetrafluoroethylene (PFTE) mold	PURESHI hardware store		Customized online, for fabricating microfluidics
Silicon plate	PURESHI hardware store		
Smooth Muscle Cells (SMC)	Procell	CL-0517	
Ultrasonic cleaner	Sapeen	CSA-02	