

Materials List for:

Standardized and Scalable Assay to Study Perfused 3D Angiogenic Sprouting of iPSC-derived Endothelial Cells In Vitro

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Materials

Name	Company	Catalog Number	Comments
0.2-10 µL Electronic repeater pipette	Sigma	Z654566-1EA	
1 M HEPES	Gibco	15630-056	
3-lane OrganoPlate	Mimetas	4003-400B	
4% PFA in PBS	Alfa Aesar	J61899	
Basal culture medium	NCardia		
Collagen-1	Cultrex	3447-020-01	
Combitips Advanced Biopur 2.5 mL	VWR	613-2071	
dPBS	Gibco	14190-094	
Eppendorf Repeater M4 pipette	VWR	613-2890	
Fibronectin	Sigma-Aldrich	F4759-1MG	1 mg/mL in milliQ water
HBSS	Gibco	14025-050	
Hoechst	Molecular Probes	H3569	10 mg/mL solution in water
iPSC-derived endothelial cells	NCardia		
NaHCO ₃	Sigma	S5761	37 g/L in milliQ water
OrganoPlate Perfusion Rocker Mini	Mimetas		Rocker platform used to provide flow
Pen/Strep	Sigma	P4333	
Phalloidin	Sigma	P1951	1 mg/mL in DMSO
PMA	Focus-Biomolecules	10-2165	2 µg/mL in PBS containing 0.1% DMSO
S1P	Ecehelon Biosciences	S-2000	1 mM in methanol containing 1% acetic acid
TRITC-albumin	Invitrogen	A34786	
VEGF	Peptotech	450-32-10	50 µg/mL in water containing 0.1% BSA