

Materials List for:

Migration, Chemo-Attraction, and Co-Culture Assays for Human Stem Cell-Derived Endothelial Cells and GABAergic Neurons

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Materials

Name	Company	Catalog Number	Comments
Accutase dissociation solution	Millipore Sigma	SCR005	Cell dissociation solution (for periventricular endothelial cells, step 1.4)
Anti-human β -Tubulin antibody	Biologend	802001	
Anti-human CD31 antibody	Millipore Sigma	CBL468	
Anti- MAP2 antibody	Neuromics	CH22103	
Anti-active Caspase 3 antibody	Millipore Sigma	AB3623	
Control human endothelial cells	Cellular Dynamics	R1022	
Control endothelial Cells Medium Supplement	Cellular Dynamics	M1019	
Cryogenic vials	Fisher Scientific	03-337-7Y	
DMEMF/12 medium	Thermofisher Scientific	11320033	
DMSO	Sigma-Aldrich	D2650	
E6 medium	Thermofisher Scientific	A1516401	
FGF2	Thermofisher Scientific	PHG0261	
Fibronectin	Thermofisher Scientific	33016-015	
Freezing Container	Thermofisher Scientific	5100	
GABA	Sigma-Aldrich	A2129	
Hemocytometer	Sigma-Aldrich	Z359629	
Human GABAergic neurons	Cellular Dynamics	R1013	
Human GABAergic neurons base medium	Cellular Dynamics	M1010	
Human GABAergic neuron Neural supplement	Cellular Dynamics	M1032	
Laminin	Sigma	L2020	
Matrigel	Corning	356230	Basement membrane matrix
Mounting Medium	Vector laboratories	H-1200	
poly-L-ornithin	Sigma	p4957	
PBS	Thermofisher Scientific	14190	
Trypan blue	Thermofisher Scientific	15250061	
TrypLE	Thermofisher Scientific	12563011	Cell dissociation solution (for GABAergic interneurons and endothelial cells, sections 3 and 4)
VEGF-A	Peprtech	100-20	
VascuLife VEGF Medium Complete Kit	Lifeline Cell Technologies	LL-0003	Component of control human endothelial cell medium

2-well silicone culture-Insert	ibidi	80209	
3-well silicone culture-Insert	ibidi	80369	
35 mm dish	Corning	430165	
15-ml conical tube	Fisher Scientific	07-200-886	
4% PFA solution	Fisher Scientific	AAJ19943K2	
6-well tissue culture plate	Fisher Scientific	14-832-11	
Inverted phase contrast microscope	Zeiss	Zeiss Axiovert 40C	
Fluorescent microscope	Olympus	FSX-100	