

Materials List for:

Improved Method for the Establishment of an *In Vitro* Blood-Brain Barrier Model Based on Porcine Brain Endothelial Cells

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Materials

Name	Company	Catalog Number	Comments
Fibronectin	Sigma-Aldrich	F1141	
Collagen IV	Sigma-Aldrich	C5533	
Poly-L-lysine	Sigma-Aldrich	P1524	
DMEM/F-12	Lonza	BE12-719F	
DMEM/Low Glucose	Sigma-Aldrich	D6046	
Penicillin/Streptomycin	Gibco Invitrogen	15140	
Plasma derived serum (PDS)	First Link UK Ltd.	60-00-89	
Fetal bovine serum (FBS)	Gibco Invitrogen	10-270-106	
Trypsin/EDTA	Gibco Invitrogen	15090-046	
Heparin	Sigma-Aldrich	H3393	
Puromycin	Sigma-Aldrich	P8833	
Hydrocortisone	Sigma-Aldrich	H4001	
8-CPT-cAMP	Biolog	C010	
RO 20-1724	Sigma-Aldrich	B8279	
Gentamicin Sulfate	Lonza	17-518Z	
DMSO	Sigma-Aldrich	34896	
PBS	Sigma-Aldrich	D8537	
EtOH	VWR	20,824,296	Mix the 70 % solution from the 96 % EtOH
DNase 1	Sigma-Aldrich	D4513	
Collagenase CLS2	Sigma-Aldrich	C6885	
ddH ₂ O			Made with Elga System
T75 flasks	Thermo Scientific	156499	
Costar Transwell inserts (Cell permeable membrane inserts)	Costar	CLS3401	12-well plate, 12 mm diameter, 0.4 µm polycarbonate membrane
15 ml centrifuge tubes	Cellstar	188271	
50 ml centrifuge tubes	Cellstar	227261	
Petri dishes	Thermo Scientific	150350	
Cryo vials	Thermo Scientific	377224	
500 ml bottle	Thermo Scientific	159910/159920	
Scalpels	Swann-Morten	REF0211	Type 24
Tissue homogenizer	Sigma	D9188	
140 µm filters	MERCK	NY4H04700	

40 µm filters	Corning	431750	
EndOhm chamber system	World Precision Instruments	ENDOHM-12	EndOhm chamber for 12mm Culture Cups
EVOM2 electrode system	World Precision Instruments	300523+STX100C	TEER measurement system with rigid STX-100C electrode pair
Long needle	Sigma		Attach to a syringe
Fine-tip curved forceps	KLS Martin	12-409-12-07	
Broad tip forceps	VWR	82027-390	
Filter holder	MERCK Millipore	Swinnex-47	
50 ml syringe	Braun	4617509F	
10 ml syringe	Terumo	SSt20ESI	
Anti-Occludin antibody	Abcam	ab31721	1:100
Anti-p120 Catenin antibody	BD Transduction laboratories	610133	1:200
Anti-ZO-1 antibody	Invitrogen	61-7300	1:200
Anti-Claudin 5 antibody	Sigma-Aldrich	SAB4502981	1:100
Donkey anti rabbit IgG conjugated with Alexa Flour 568	Thermo Scientific	A10042	1:500
Donkey anti mouse IgG conjugated with Alexa Flour 488	Thermo Scientific	A21202	1:500
Sucrose	Perkin Elmer	NEC100X250UC	0.15µl/ml final working conc
Lucifer Yellow	Sigma	L0144	10 µg/ml final working conc