

Materials List for

Isolation of Primary Porcine Retinal Pigment Epithelial Cells for *In Vitro* Modeling

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Materials

Name	Company	Catalog Number	Comments
6 Micro-well glass bottom plate with 14 mm micro-well #1 cover glass	Cellvis	P06-14-1-N	
Antibiotic-Antimycotic (100x)	Gibco	15240062	
Biosafety Cabinet			
Calcium Chloride, Dried, Powder, 97%	Alfa Aesar	L13191.30	
Cell Strainer	Fisher Scientific	22-363-548	one per eye
Centrifuge			
Centrifuge Tubes, 15 mL	Fisher Scientific	05-539-12	
Cooler, 8 L	Igloo	32529	
Corning Transwell Multiple Well Plate with Permeable Polyester Membrane Inserts	Fisher Scientific	07-200-154	Culture inserts
Cut Resistant Glove	Dowellife	712971375857	
Cytiva HyClone Dulbecco's Phosphate Buffered Saline, Solution	Fisher Scientific	SH3026401	for ICC dilutions only
Deionized Water			
DMEM, 1x with 4.5 g/L glucose, L-glutamine & sodium pyruvate	Corning	10-013-CV	
DNase I from Bovine Pancreas	Sigma Aldrich	DN25	
DPBS/Modified - calcium - magnesium	Cytiva	SH3002B.02	stored at 4 °C
ELISA kit, Q-Plex Human Angiogenesis (9-Plex)	Quansys Biosciences, Logan, UT		
ENDOHM 6 TEER device	World Precision Instruments		
Fetal Bovine Serum (FBS)	Avantor	232B20	
Fisher BioReagents Bovine Serum Albumin (BSA) DNase- and Protease-free Powder	Fisher Scientific	BP9706100	
Flashlight			

Formaldehyde, ACS Grade, 36.5% (w/w) to 38.0% (w/w), LabChem	Fisher Scientific	LC146501	
Gauze Sponges	Fisher Scientific	22-415-504	One per eye
Goat anti-Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 647, Invitrogen	Thermo Scientific	A32728	RPE65 secondary antibody
Ice			Crushed preferred
Inverted Phase Contrast Microscope			
Invitrogen NucBlue Live ReadyProbes Reagent (Hoechst 33342)	Fisher Scientific	R37605	
Iris Fine Tip Scissors, Standard Grade, Curved, 4.5"	Cole-Palmer	EW-10818-05	
Iris Scissors, 11 cm, Straight, Tungsten Carbide	Fisher Scientific	50-822-379	
LSM-710 Confocal Microscope	Zeiss		
Petri Dish, 100 mm x 20 mm	Corning	430167	one per 2-3 eyes and one for dissection surface/waste
Povidone-Iodine Solution, 10%	Equate	49035-050-34	
RPE65 Monoclonal Antibody (401.8B11.3D9), Invitrogen	Thermo Scientific	MA116578	RPE65 primary antibody
Scalpel Blades Size 10	Fisher Scientific	22-079-683	
Scalpel Handles Style 3	Fisher Scientific	50-118-4164	
Surgical Drape, 18 x 26"	Fisher Scientific	50-209-1792	
Tissue Culture Incubator			37 °C, 5% CO ₂ , 95% Humidity
Tissue Culture Plates, 6 Wells	VWR	10062-892	One for eye wash and one for seeding
Tri-Cornered Polypropylene Beaker, 1000 mL	Fisher Scientific	14-955-111F	
Triton X-100	Sigma Aldrich	T8787	
Trypsin 0.25%, 2.21 mM EDTA in HBSS; w/o Ca, Mg, Sodium Bicarbonate	Corning	25053CI	
Tweezers Style 20A	Fisher Scientific	17-467-231	
Tweezers Style 2A	Fisher Scientific	50-238-47	for removing neural retina
Tweezers Style 5-SA-PI	Fisher Scientific	17-467-168	
Vacuum Aspiration System			
Water Bath, 37 °C			
ZO-1 Monoclonal Antibody (ZO1-1A12), FITC, Invitrogen	Fisher Scientific	33-911-1	ZO-1 conjugated primary antibody