

Materials List for:

Development of a Refined Protocol for Trans-scleral Subretinal Transplantation of Human Retinal Pigment Epithelial Cells into Rat Eyes

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Materials

Name	Company	Catalog Number	Comments
0.25% Trypsin-EDTA (1x)	Life Technologies	25200-072	
DNase I	Sigma	DN-25	
1xDulbecco's Phosphate Buffered Saline without Calcium & Magnesium (1xDPBS-CMF)	Corning Cellgro	431219	
Sterile Balanced Salt Solution (BSS)	Alcon	00065079550	
Sterile eye wash	Moore Medical	75519	
Sterile 0.9% saline	Hospira	488810	
Proparacaine Hydrochloride Ophthalmic Solution (0.5%)	Akorn	17478026312	
Tropicamide Ophthalmic Solution, USP (1%)	Bausch & Lomb	24208058559	
Phenylephrine Ophthalmic Solution, USP (10%) stock	Bausch & Lomb	42702010305	This is used to make 2.5% Phenylephrine
Buprenex	Patterson	433502	
Dexamethasone	APP Pharmaceuticals	63323051610	
100% Ethanol	Thermo Scientific	615090040	
70% Ethanol	Ricca Chemical Company	2546.70-5	
Sterile GenTeal Lubricant Eye Gel	Novartis	78042947	
Sterile Systane Ultra Lubricant Eye Drops	Alcon	00065143105	
hRPESC-RPE cells	Not available commercially		Please refer to "Reference #12" for cell isolation and maintenance.
24-well plates	Corning	3526	
Conical tubes (15 ml)	Sarstedt	62554002	
Microcentrifuge cap with o-ring	LPS inc	L233126	
Capless Microcentrifuge tubes (1.7 ml)	LPS inc	L233041	
Centrifuge	Eppendorf	5804R	
Sterile alcohol wipe	McKesson	58-204	
Sterile cotton tip applicators	McKesson	24-106-2S	
Sterile Weck-Cel spears	Beaver-Visitec International	0008680	
Sterile surgical drapes	McKesson	25-515	
Gauze	McKesson	16-4242	
Nanofil syringe (10 ul)	World Precision Instruments	Nanofil	

Nanofil beveled 33-gauge needle	World Precision Instruments	NF33BV-2	
Insulin syringe needles 31-gauge	Becton Dickinson	328418	
Rat toothed forceps	World Precision Instruments	555041FT	
Vannas Micro Dissecting Spring Scissors	Roboz	RS-5602	
Circulating water T pump	Stryker	TP700	
Heating pad	Kent Scientific	TPZ-814	
Animal anesthesia system	World Precision Instruments	EZ-7000	
Balance	Ohaus	PA1502	
Stereo microscope	Zeiss	Stemi 2000	
Microscope light source	Schott	ACE series	
Bioptigen Envisu Spectral Domain Ophthalmic Imaging System	Bioptigen	R2210	
Sterile black marker pen	Viscot Industries	1416S-100	
Miniature measuring scale	Ted Pella Inc	13623	
Infrared Basking Spot Lamp	EXO-TERRA	PT2144	This is used as a heating lamp for animals during the post-surgical recovery phase