

Efficient Dissection and Culture of Primary Mouse Retinal Pigment Epithelial Cells

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Materials

Name	Company	Catalog Number	Comments
10 ml BD Luer-Lok tip syringe, disposable	BD Biosciences	309604	
15 ml centrifuge tube	VWR International	21008-103	
50 ml centrifuge tube	VWR International	21008-951	
Alpha Minimum Essential Medium	Sigma-Aldrich	M4526-500ML	
Angled micro forceps	WPI	501727	
Bench-top centrifuge	any		
CO2 incubator	Thermo	HERA VIOS 160I CO2 SST TC 120V	
Dissecting microscope	Any		
Dulbecco's Phosphate Buffered Saline no Calcium, no Magnesium	Gibco	14190144	
Dumont #5 45° Medical Biology tweezers, 0.05 x 0.01 mm tip, 11 cm length	WPI	14101	
Ethanol	Sigma-Aldrich	E7023-500ML	
Falcon Easy-Grip Clear Polystyrene Cell Culture Dish, 35mm	BD Biosciences	353001	
Fetal Bovine Serum	Hyclone	SH30071.03	Heat inactivated.
Hank's Balanced Salt Solution plus Calcium and Magnesium, no Phenol Red	Life Technologies	14175095	
Hank's Balanced Salt Solution plus Calcium and Magnesium, no Phenol Red B6	Life Technologies	14025092	
HEPES 1M	Gibco	15630106	
Hyaluronidase	Sigma-Aldrich	H-3506 1G	
Hydrocortisone	Sigma-Aldrich	H-0396	
Laminar flow hood	Thermo	CLASS II A2 4 115V PACKAGECLA	
Laminin 1mg/ml	Sigma-Aldrich	L2020-1 MG	Dilute in PBS at 37C to 1mg/ml
McPherson-Vannas Micro Scissors 8 cm long	WPI	503216	

Non-essential amino acids 100X	Gibco	11140050	
N1 Supplement 100X	Sigma-Aldrich	N6530-5ML	
Penicillin-Streptomycin	Gibco	15140-148	
Sterile Bard-Parker Carbon steel surgical blade size 11	Fisher-Scientific	08-914B	
Taurine	Sigma-Aldrich	T-0625	
Tissue culture treated 12-well plates	Fisher-Scientific	08-772-29	
Tissue culture treated 6-well plates	Fisher-Scientific	14-832-11	
Transwell supports 6.5 mm	Sigma-Aldrich	CLS3470-48EA	
Triiodo-thyronin	Sigma-Aldrich	T-5516	
Trypsin-EDTA (0.25%), phenol red	Gibco	25200056	
Tweezer, Dumont #5 Medical Biology 11 cm, curved, stainless steel 0.02 x 0.06 mm Mod tips	WPI	500232	
Vannas Scissors 8cm long, stainless steel	WPI	501790	
Whatman Puradisc 25mm Syringe Filters 0.45µm pore size	Fisher-Scientific	6780-2504	