

Materials List for:

The Corneal Micropocket Assay: A Model of Angiogenesis in the Mouse Eye

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URL: <https://www.jove.com/video/51375>

DOI: [doi:10.3791/51375](https://doi.org/10.3791/51375)

Materials

Name	Company	Catalog Number	Comments
Section 1: Pellet preparation			
Sucrafate	Sigma	#S0652	
Hydron (aka Poly(2-Hema))	Sigma	#P3932-10G	
Ethanol	Pharmco Products Inc	#111000200CSGL	
Growth factors:			Must be carrier-free (no bovine serum albumin(BSA))
Fibroblast growth factor (FGF)	PeproTech	#AF-100-18B	
Vascular endothelial growth factor (VEGF)	R D Systems	#293-VE-050/CF	
35 mm dish	Becton-Dickson	#353001	Used for storage of pellets
10 cm petri dish	VWR	#25384-342	Used as work surface for preparing pellets
Mesh	Sefar America	#03--300/51	300 um nitex nylon, cut into cm square pieces and sterilized in autoclave
Spatulas	Fisher Scientific	#21-401-10	Use tapered end of one to break up pellet mixture. Bend tapered end of other to help remove mixture from microcentrifuge tube.
Microcentrifuge tubes	Fisher Scientific	#05-408-146	One for hydron, one for sucrafate
Jewelers forceps, #5	Ambler Surgical	#2315E	Need 2 for pulling mesh apart
Centrifugal evaporator	ThermoSavant	DNA110 SpeedVac	
Section 2: Surgical implantation of pellets			
Operating microscope	Zeiss		
2.5% Avertin			General anesthetic
Proparacaine hydrochloride ophthalmic solution 0.5%	Falcon	NDC# 6131401601	Eye anesthetic
Triple Antibiotic Ophthalmic Ointment	Bausch Lomb	NDC# 2420878055	Contains neomycin, polymixin and bacitracin
Ophthalmic microknife, 5 mm	Surgistar	#924501	30 degree angle
von Graef knife	Ambler Surgical	#3401E	
Jewelers forceps, #1	Ambler Surgical	#2301E	Must be blunted with sharpening stone for proptosing eye
Jewelers forceps, #5	Ambler Surgical	#2305E	For picking up pellets and placing on eye

Small curved scissors	Ambler Surgical	#5636E	For trimming whiskers
Gauze			For blotting eye after proparacaine
Section 3: Grading of Corneal Neovascularization			
2.5% Avertin			General anesthetic
Slit lamp	Nikon	FS-2	Needs an ocular with a reticule to assist in measuring