

Full-Circle Cauterization of Limbal Vascular Plexus for Surgically Induced Glaucoma in Rodents

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Materials

Name	Company	Catalog Number	Comments
Acetone	Isofar	201	Used for electron microscopy tissue preparation (step 5)
Active electrode for electroretinography	Hansol Medical Co	-	Stainless steel needle 0.25 mm × 15 mm
Anestalcon	Novartis Biociências S/A	MS-1.0068.1087	Proxymetacaine hydrochloride 0.5%
Calcium chloride	Vetec	560	Used for electron microscopy tissue preparation (step 5)
Cautery Low Temp Fine Tip 10/bx	Bovie Medical Corporation	AA00	Low-temperature ophthalmic cautery
Cetamin	Syntec do Brasil Ltda	000200-3-000003	Ketamine hydrochloride 10%
DAKO	Dako North America	S3023	Antifade mounting medium
DAPI	Thermo Fisher Scientific	28718-90-3	diamidino-2-phenylindole; blue fluorescent nuclear counterstain; emission at 452±3 nm
Ecofilm	Cristália Produtos Químicos Farmacêuticos Ltda	MS-1.0298.0487	Carmellose sodium 0.5%
EPON Resin	Polysciences, Inc.	-	Epoxy resin used for electron microscopy, composed of a mixture of four reagents: Poly/Bed 812 Resin (CAT#08791); DDSA - Dodecenylsuccinic Anhydride (CAT#00563); NMA - Nadic Methyl Anhydride (CAT#00886); DMP-30 - 2,4,6-tris(dimethylaminomethyl)phenol (CAT#00553)
Glutaraldehyde	Electron Microscopy Sciences	16110	Used for electron microscopy tissue preparation (step 5)
Hyabak	União Química Farmacêutica Nacional S/A	MS-8042140002	Sodium hyaluronate 0.15%
Icare Tonolab	Icare Finland Oy	TV02 (model number)	Rebound handheld tonometer
IgG donkey anti-mouse antibody + Alexa Fluor 555	Thermo Fisher Scientific	A31570	Secondary antibody solution
LCD monitor 23 inches	Samsung Electronics Co. Ltd.	S23B550	Model LS23B550, for electroretinogram recording

LSM 510 Meta	Carl Zeiss	-	Confocal epifluorescence microscope
Maxiflox	Cristália Produtos Químicos Farmacêuticos Ltda	MS-1.0298.0489	Ciprofloxacin 3.5 mg/g
MEB-9400K	Nihon Kohden Corporation	-	System for electroretinogram recording
monoclonal IgG1 mouse anti-Brn3a	MilliporeSigma	MAB-1585	Brn3a primary antibody solution
Neuropack Manager v08.33	Nihon Kohden Corporation	-	Software for electroretinogram signal processing
Optomotry	CerebralMechanics	-	System for optomotor response analysis
Osmium tetroxide	Electron Microscopy Sciences	19100	Used for electron microscopy tissue preparation (step 5)
Potassium ferrocyanide	Electron Microscopy Sciences	20150	Used for electron microscopy tissue preparation (step 5)
Reference and ground electrodes for electroretinography	Chalgren Enterprises	110-63	Stainless steel needles 0.4 mm × 37 mm
Sodium cacodylate buffer	Electron Microscopy Sciences	12300	Used for electron microscopy tissue preparation (step 5)
Ster MD	União Química Farmacêutica Nacional S/A	MS-1.0497.1287	Prednisolone acetate 0.12%
Terolac	Cristália Produtos Químicos Farmacêuticos Ltda	MS-1.0497.1286	Ketorolac trometamol 0.5%
Terramicina	Laboratórios Pfizer Ltda	MS-1.0216.0024	Oxytetracycline hydrochloride 30 mg/g + polymyxin B 10,000 U/g
Tono-Pen XL	Reichert Technologies	230635	Digital applanation handheld tonometer
TO-PRO-3	Thermo Fisher Scientific	T3605	Far red-fluorescent nuclear counterstain; emission at 661 nm
Triton X-100	Sigma-Aldrich	9036-19-5	Non-ionic surfactant
Uranyl acetate	Electron Microscopy Sciences	22400	Used for electron microscopy tissue preparation (step 5)
Xilazin	Syntec do Brasil Ltda	7899	Xylazine hydrochloride 2%
	Carl Zeiss	-	Stereo microscope for surgery and retinal dissection