

Materials List for

Sheath-Preserving Optic Nerve Transection in Rats to Assess Axon Regeneration and Interventions Targeting the Retinal Ganglion Cell Axon

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Citation

Do, J.L., Allahwerdy, S., David, R.C., Weinreb, R.N., Welsbie, D.S. Sheath-Preserving Optic Nerve Transection in Rats to Assess Axon Regeneration and Interventions Targeting the Retinal Ganglion Cell Axon. *J. Vis. Exp.* (), e61748, doi:10.3791/61748 (2020).

Date Published

September 6, 2020

DOI

10.3791/61748

URL

jove.com/video/61748

Materials

Name	Company	Catalog Number	Comments
4-0 Polyglactin suture	Ethicon	J315H	
9-0 Polypropylene suture	Ethicon	1754G	
Acepromazine	Butler	003845	0.5-4 mg/kg Stock Concentration: 10 mg/mL Final Concentration: 0.25 mg/mL
Ampicillin	Sandoz	0781-3404-85	80-100 mg/kg Final Concentration: 50 mg/mL
Anesthesia System	VetEquip	901806	
Animal incubator	Precision Incubators	Chick Chalet II	
Banamine	Schering-Plough	0061-0851-03	2.5-5 mg/kg Stock Concentration: 50 mg/mL Final Concentration: 0.5 mg/mL
Borosilicate glass capillaries	World Precision Instruments	1B150F-4	
Colibri forceps	Katena	K5-1500	
Dumont #5/45 forceps	Fine Science Tools	11251-35	
Heat therapy pump	Kent Scientific	HTP-1500	
Isoflurane	Covetrus	29404	
Johns Hopkins Bulldog Clamp	Roboz	RS-7440	
Ketamine	Putney	26637-411-01	40-80 mg/kg Stock Concentration: 100 mg/mL Final Concentration: 25 mg/mL
Microinjection system (Picospritzer II)	General Valve, Inc		
Microliter syringe 5 µL	Hamilton	88000	
Micropipette puller	Sutter Instrument Co.	Model P-77 Brown-Flaming	
Neomycin/Polymyxin B sulfates/ Bacitracin Zinc Ophthalmic Ointment	Bausch + Lomb		
PBS	Millipore	BSS-1005-B	
Povidone-iodine	Healthpets	BET16OZ	

Proparacaine hydrochloride 0.5%	Bausch + Lomb		
Ringers	Abbott	04860-04-10	2-3 mL/injection
Stereotaxic Frame	Kopf		
Surgical Microscope	Zeiss		
Vannas scissors	Fine Science Tools	91500-09	
Xylazine	Lloyd	0410	2.5-8 mg/kg Stock Concentration: 100 mg/mL Final Concentration: 5.8 mg/mL