

Materials List for

Intravitreal Injections in the Ovine Eye

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Citation

Murray, S.J., Mitchell, N.L. Intravitreal Injections in the Ovine Eye. *J. Vis. Exp.* (185), e63823, doi:10.3791/63823 (2022).

Date Published

July 5, 2022

DOI

10.3791/63823

URL

jove.com/video/63823

Materials

Name	Company	Catalog Number	Comments
1 mL low dead-space safety syringe with permanently attached 0.5 inch needle	Fisher Scientific, Auckland, New Zealand	05-561-28	Covidien Monoject Tuberculin Safety syringe or similar
1.5 mL microcentrifuge tube	Sigma Aldrich	HS4323	Autoclave tubes to sterilise prior to use
Anesthesia machine with gas bench and monitor	Hyvet Anesthesia, Christchurch, New Zealand		
Antibiotic eye drops	Teva Pharma Ltd, Auckland, New Zealand		Commercial name: Chlorafast (0.5% chloramphenicol)
BrightMount plus anti-fade mounting medium	Abcam, Cambridge, United Kingdom	ab103748	
DAPI (4',6-diamidino-2-phenylindole dihydrochloride)	Sigma Aldrich, St. Louis, Missouri, United States	10236276001	
Diazepam sedative	Illum, Troy Laboratories Pty Ltd, Tauranga, New Zealand		5 mg/mL
Endotracheal tubes	Flexicare Medical Ltd, Mountain Ash, United Kingdom		Standard, cuffed. Sizes 7, 7.5, or 8 depending on sheep size
Eye speculum	Capes Medical Ltd, Tauranga, New Zealand	KP151/14	Nopa Barraquer-Colibri (10 mm)
Fenestrated surgical drape	Amtech Medical Ltd, Whanganui, New Zealand	DI583	Or similar
Filter Tips	Interlab, Auckland, New Zealand		10, 200, and 1,000 µL
Formaldehyde solution (37%)	Fisher Scientific, Auckland, New Zealand	AJA809-2.5PL	Make up to 10% in distilled water with 0.9% NaCl
Goat anti-rabbit Alexa Fluor 594	Invitrogen Carlsbad, CA, USA	A-11012	Use at a dilution of 1:500
Isoflurane anesthetic	Attane, Bayer Animal Health, Auckland, New Zealand		
Ketamine HCl anesthetic/analgesic	PhoenixPharm Distributors Ltd, Auckland, New Zealand		100 mg/mL
Laryngoscope (veterinary)	KaWe Medical, Denmark		Miller C blade, size 2
Needles	Capes Medical Ltd, Tauranga, New Zealand	302025	BD Hypodermic Needles, or similar
Non-steroidal anti-inflammatory	Boehringer Ingelheim (NZ) Ltd, Auckland, New Zealand	49402/008	Commercial name: Metacam 20 (20 mg/mL meloxicam)
Non-toothed forceps	Capes Medical Ltd, Tauranga, New Zealand	AB864/16	Or similar

Non-toothed hemostat	Capes Medical Ltd, Tauranga, New Zealand	AA150/12	Or similar
Normal goat serum	Thermo Fisher Scientific, Christchurch, New Zealand	16210072	
Oxygen (medical)	BOC Gas, Christchurch, New Zealand		D2 cylinder, gas code 180
Phosphate buffered saline	Thermo Fisher Scientific, Christchurch, New Zealand	10010023	Sterile, filtered
Povidone-iodine solution	Capes Medical Ltd, Tauranga, New Zealand	005835	Commercial name: Betadine (10% povidone-iodine)
Rabbit anti-cow glial fibrillary acidic protein (GFAP)	Dako, Glostrup, Denmark	Z0334	Use at a dilution of 1:2,500
Self-complementary adeno-associated virus serotype 9, containing the chicken beta action (CBh) promoter and codon-optimized ovine CLN5	University of North Carolina Vector Core, NC, USA.	scAAV9/CBh-oCLN5opt	
Sodium Chloride 0.9% IV Solution	Capes Medical Ltd, Tauranga, New Zealand	AHB1322	Commercial name: Saline solution
Subcutaneous antibiotics	Intervet Schering Plough Animal Health Ltd, Wellington, New Zealand		Commercial name: Duplocillin LA (150,000 IU/mL procaine penicillin and 115,000 IU/mL benzathine penicillin)
Surgical sharp blunt curved scissors	Capes Medical Ltd, Tauranga, New Zealand	SSSHBLC130	
Terumo Syringe Luer Lock	Amtech Medical Ltd, Whanganui, New Zealand	SH159/SH160	Sterile syringes; 10 mL for drawing up induction drugs, 20 mL for drawing up saline
Virkon Disinfectant Powder	EBOS Group Ltd, Christchurch, NZ	28461115	