

Materials List for:

Experimental Glaucoma Induced by Ocular Injection of Magnetic Microspheres

Shannon Bunker¹, Joanna Holeniewska¹, Sauparnika Vijay², Annegret Dahlmann-Noor^{2,3}, Peng Khaw^{2,4}, Yin-Shan Ng⁵, David Shima^{1,6}, Richard Foxton¹

¹Ocular Biology and Therapeutics, University College London Institute of Ophthalmology

²University College London Institute of Ophthalmology

³Moorfields Eye Hospital

⁴NIHR Biomedical Research Centre, Moorfields Eye Hospital

⁵Schepens Eye Research Institute, Harvard Medical School

⁶Hoffman-La Roche

Correspondence to: Richard Foxton at richard.foxton@ucl.ac.uk

URL: <https://www.jove.com/video/52400>

DOI: [doi:10.3791/52400](https://doi.org/10.3791/52400)

Materials

Name	Company	Catalog Number	Comments
250 - 300g female Brown Norway ex-breeder rats	Harlan UK	203	
Tonolab Rebound Tonometer	Tiolat	TV02	
Ketaset (ketamine)	Fort Dodge Animal health	BN1000118	37.5 mg/kg
Domitor (medetomidine hydrochloride)	Orion Pharma	140-999	0.25 mg/kg
Povidone iodine	Ecolab	BN4369LE10	5% in H ₂ O
Minim's Saline Solution	Bausch and Lomb	PL00033/5017	
Toroidal magnet	Supermagnete	R-10-07-03-N	
Magnetic Microspheres	Bangs Laboratories	UMC4N/9692	
HBSS	Invitrogen	14025	
33 G beveled needle	Hamilton	7747-01	Custom needle
Luer tip syringe	Hamilton	80601	
Antisedan (atipamezole hydrochloride)	Orion Pharma	141-003	0.25 mg/kg
Chloramphenicol ointment	Medicom	18956-0005	
TUNEL staining kit	Promega	G3250	
Triton X-100	Sigma-Aldrich	T8787	
DAPI	Sigma-Aldrich	D9542	
Vectashield mounting media	Vector Labs	H-1000	