

Materials List for

Transplantation of a 3D Bioprinted Patch in a Murine Model of Myocardial Infarction

Christopher D. Roche^{1,2,3,4}, Carmine Gentile^{1,2,3}

¹The University of Sydney ²University of Technology Sydney (UTS) ³The Royal North Shore Hospital ⁴University Hospital of Wales

Corresponding Author

Carmine Gentile
Carmine.Gentile@uts.edu.au

Citation

Roche, C.D., Gentile, C. Transplantation of a 3D Bioprinted Patch in a Murine Model of Myocardial Infarction. *J. Vis. Exp.* (), e61675, doi:10.3791/61675 (2020).

Date Published

September 26, 2020

DOI

10.3791/61675

URL

jove.com/video/61675

Materials

Name	Company	Catalog Number	Comments
3-0 non-absorbable black braided treated silk	Ethicon	232G	
6-0, 24" (60 cm) Prolene (polypropylene) suture, blue monofilament	Ethicon	8805H	
7-0, 18" (45 cm) silk black braided	Ethicon	768G	
Adjustable stereo microscope with 6.4x magnification	Olympus	SZ 3060 STU1	
Anitisedan (atipamezole)	Zoetis	N/A	
Atropine sulphate 0.6 mg, 1 mL vials, 10 pack	Symbion Pharmacy Services	ATRO S I2	
Bupivacaine, 20 mL, 5 vials	Baxter Healthcare	BUPI I C01	
Temvet (buprenorphine), 300 µg/mL, 10 mL bottle	Troy Laboratories	TEMV I 10	
Curved-tip forceps	Kent Scientific	INS650915-4	Iris dressing forceps, 10 cm-long curved dressing forceps; 0.8 mm serrated tips; stainless steel.
Dissecting scissors for cutting muscle/skin	Kent Scientific	INS600393-G	Dissecting scissors, straight, 10 cm long
Endotracheal intubation kit	Kent Scientific	ETI-MSE	Including intubation catheter/tube (20 G), fibre-optic light source and dental spatula
Fine scissors	Kent Scientific	INS600124	McPherson-Vannas micro scissors, 8 cm long, straight, 0.1 mm tips, 5 mm blades; stainless steel.
Lasix (furosemide) 20 mg, 2 mL, 5 pack	Sigma Company	LASI A 1	
Heat pad for animal recovery post-op	Passwell	PAD	Passwell Cosy Heat Pad for Animals - 26cm x 36cm; 10 Watts; Soft PVC Cover
Ketamine 100 mg, 50 mL	CEVA Animal Health	KETA I 1	
Needle holder	Kent Scientific	INS600137	Castroviejo needle holder, serrated, 14 cm long, 1.2 mm jaws with lock

PhysioSuite with MouseVent G500 automatic ventilator	Kent Scientific	PS-MVG	
Puralube Vet Ophthalmic Ointment (sterile ocular lubricant)	Dechra	17033-211-38	
Self-retaining toothed mouse retractor	Kent Scientific	INS600240	ALM serrated self-retaining retractor, 7 cm long
Straight forceps	Kent Scientific	INS650908-4	Super fine dressing forceps, 12.5 cm Long, serrated tips, 0.35 x 0.10 mm; stainless steel.
Surgical magnifying glasses	Kent Scientific	SL-001	
VetFlo vaporizer	Kent Scientific	VetFlo-1205S-M	
Xylazine 100 mg, 50 mL	Randlab	XYLA I R01	