

Materials List for:

In Vitro Model of Coronary Angiogenesis

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Materials

Name	Company	Catalog Number	Comments
100 x 20 MM Tissue Culture Dish	Fisher Scientific	877222	Referred in the protocol as Petri dish
24-well plates	Fisher Scientific	08-772-51	
8.0 µM PET membrane culture inserts	Millipore Sigma	MCEP24H48	
Alexa Fluor Donkey anti-rabbit 555	Fisher Scientific	A31572	Secondary antibody
Alexa Fluor Donkey anti-rat 488	Fisher Scientific	A21206	Secondary antibody
Angled Metal Probe	Fine science tools	10088-15	Angled 45 degree, used for detecting deep plugs
Anti- ERG 1/2/3 antibody	Abcam	Ab92513	Primary antibody
Anti- VE-Cadherin antibody	Fisher Scientific	BDB550548	Primary antibody, manufacturer BD BioSciences
CO ₂ gas tank	Various suppliers	N/A	
CO ₂ Incubator	Fisher Scientific	13998223	For 37 °C, 5% CO ₂ incubation
Dissection stereomicroscope	Leica	S9i	Leica S9i Stereomicroscope
EBM-2 basal media	Lonza	CC-3156	Endothelial cell growth basal media
ECM solution	Corning	354230	Commercially known as Matrigel
EGM-2 MV Singlequots Kit	Lonza	CC-4147	Microvascular endothelial cell supplement kit; This is mixed into the EBM-2 to make the EGM-2 complete media
Fetal Bovine Serum (FBS)	Fisher Scientific	SH3007003IR	
FiJi	NIH	NA	Image processing software (https://imagej.net/Fiji/Downloads)
Fine Forceps	Fine science tools	11412-11	Used for embryo dissection
Fisherbrand Straight-Blade operating scissors	Fisher Scientific	13-808-4	
Hyclone Phosphate Buffered Saline (1X)	Fisher Scientific	SH-302-5601LR	
Laminar flow tissue culture hood	Fisher Scientific	various models available	
Mounting Medium	Vector Laboratories	H-1200	Vectashield with DAPI
Paraformaldehyde (PFA)	Electron Microscopy/Fisher	50-980-494	This is available at 32%; needs to be diluted to 4%
Perforated spoon	Fine science tools	10370-18	Useful in removing embryo/tissues from a solution
Recombinant Murine VEGF-A 165	PeproTech	450-32	
Standard forceps, Dumont #5	Fine science tools	11251-30	
Sure-Seal Mouse/Rat chamber	Easysysteminc	EZ-1785	Euthanasia chamber