

Materials List for:

Isolation and Culture of Primary Aortic Endothelial Cells from Miniature Pigs

Yanli Zhao^{1,2,3}, Chengjiang Zhao⁴, David K.C. Cooper⁵, Ying Lu², Kewang Luo⁶, Huiyun Wang³, Pengfei Chen³, Changchun Zeng³, Shaodong Luan¹, Lisha Mou², Hanchao Gao^{1,2,3}

¹Department of Nephrology, Shenzhen Longhua District Central Hospital, Affiliated Central Hospital of Shenzhen Longhua District, Guangdong Medical University

²Shenzhen Xenotransplantation Medical Engineering Research and Development Center, Shenzhen Second People's Hospital, First Affiliated Hospital of Shenzhen University, Shenzhen University School of Medicine

³Department of Medical Laboratory, Shenzhen Longhua District Central Hospital, Affiliated Central Hospital of Shenzhen Longhua District, Guangdong Medical University

⁴Department of Endocrinology, Shenzhen Longhua District Central Hospital, Affiliated Central Hospital of Shenzhen Longhua District, Guangdong Medical University

⁵Xenotransplantation Program, Department of Surgery, University of Alabama at Birmingham

⁶People's Hospital of Longhua

Correspondence to: Shaodong Luan at szkidney3@163.com, Lisha Mou at lishamou@gmail.com, Hanchao Gao at hcgao@foxmail.com

URL: <https://www.jove.com/video/59673>

DOI: [doi:10.3791/59673](https://doi.org/10.3791/59673)

Materials

Name	Company	Catalog Number	Comments
20 x PBS solution (pH 7.4, Nuclease free)	Sangon Biotech	B540627#	
75% Medical alcohol	Guilin LiFeng Medical Supplies Co., Ltd. China		
BD FACSAria II	BD Bioscience		
Boneforceps	Beijing HeLi KeChuang Technology Development CO., Ltd. China	HL-YGQ	
BOON Disposable Syringe (10ml)	Jiangsu Yile medical Article Co., Ltd. China		
CD31-FITC antibody	Bio-Rad	MCA1746F	
Cell scraper	Corning	3010#	
Collagenase IV	Sigma-Aldrich	C5138#-1G	
Compound ketamine injection	Veterinary Pharmaceutical Factory of Shenyang, China		Ketamine Hydrochloride: 0.3g/2ml, Xylazine hydrochloride: 0.3g/2ml, Phenacetin hydrochloride: 1mg/2ml
DAPI (4',6-Diamidino-2-Phenylindole, Dihydrochloride)	Life Technologies	D1306#	
DMEM	Life Technologies	11965118#	
ECGS	Sciencell	1052#	
ECM	Sciencell	1001#	
Eppendorf Snap-Cap Microtube (1.5mL)	AXYGEN	MCT-150-C#	
Falcon 100mm Cell Culture Dish	Corning	353003#	
Fetal Bovine Serum	GIBCO	10270-106#	
Flowjo v10.0			
Forceps	ShangHai medical instruments Co., Ltd. China		
Heparin sodium	Jiangsu WanBang biopharmaceutical Co., Ltd. China		
Iodine tincture	Guilin LiFeng Medical Supplies Co., Ltd. China		

Miniature Pig (Bama or Wuzhishan)	Kang Yi Ecological Agriculture Co., Ltd, China		
Mshot microscope	Guangzhou Micro-shot Technology Co., Ltd.	M152	
Penicillin/Streptomycin	Life Technologies	15070063#	
Petri Dishes (150 x 15 mm)	Biologixgroup	66-1515#	
Rectangular Canted Neck Cell Culture Flask with Vent Cap (T25)	Corning	3289#	
Scissors	ShangHai medical instruments Co.,Ltd.China		
Serological Transfer Pipettes (10ml)	JET Biofil	GSP010010#	
Sterile Pasteur Pipette	GeneBrick	GY0025#	
Sterile Syringe Filter (0.22µm)	Millipore	SLGV033RS#	
Surgical scalpel	ShangHai medical instruments Co.,Ltd.China	22#	
Syringe (1mL)	Shengguang Medical Instrument Co., Ltd.China		
Trypsin-EDTA (0.25%), phenol red	GIBCO	25200056#	