

Adult Pig Islet Isolation

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Materials

Name	Company	Catalog Number	Comments
0.22 µm 500 mL disposable filter	Corning	431097	
1 L Plastic blue cap bottle	Celltrans	YKBH1	
10 mL, 25 mL disposable pipette	CORNING	4488	
150 mm Petri dish	BIOLGIX	66-1515	
1x HBSS basic	GIBCO	C14175500BT	
200 mL conical centrifuge bottle	Falcon	352075	
50 mL centrifuge tube	NEST	602052/430829	
500 mL Ricordi Chamber	Biorep	600-MDUR-03	
500-micron mesh	Yikang	YKBE	
6 well-plate	COSTAR	3511	
Angiocatheter (16G, 18G, 20G)	BD	682245, 383005, 383012	
Anesthesia Machine	RWD	R620-S1	
Anesthetics A: Lumianing (2.5–5 mg/kg)	Huamu, China	Animal Drugs GMP (2015) 070011777	
Anesthetics B: Propofol (2–3 mg/kg)	Sigma Aldrich	S30930-100g	
Beaker (500 mL, 1000 mL)	Shuniu	SB500ml, SB1000ml	
Blood glucose meter	Sinocare	2JJA0R05232	
Blood glucose test strips	Sinocare	41120	
Calcein/PI cell viability assay kit	Beyotime	C2015M	
CMRL 1066	Thermo Fisher scientific	11530037	
Collagenase V	Sigma Aldrich	C9263	
CyQUANT cell proliferation assay kit	Molecular Probes	C7026	
Digestive tract	Celltrans	YKBAO	
Disposable blood collection needle	FKE	20153152149	
Dithizone	Sigma Aldrich	D5130	

Drapes	Xinwei	20182640332	
Flat chassis	Jinzhong	R0B010	
Epidural catheter	Aoocn	No. 20163661148	
Heparin Sodium	Chinawanbang	99070	
HEPES	GIBCO	15630-080	
Histopaque 1077	Sigma Aldrich	10771-100ml	1077 Polysucrose solution
Histopaque 1083	Sigma Aldrich	10831-100ml	1083 Polysucrose solution
Histopaque 1119	Sigma Aldrich	11191-100ml	1119 Polysucrose solution
Infusion tube	BOON	20163660440	
Iodophor	LIRCON	Q/1400ALX002	
Isoflurane	Rwdls	R510-22-16	
No. 0-2 suture	Jinhuan	No. 20142650770	
No. 22 surgical blade	Lianhui	2011126	
Penicillin/streptomycin	GIBCO	15140-122	
Peristaltic pump	LongerPump	BT300-2J	
Pig serum	Kangyuan	20210601	
RPMI-1640 Medium	GIBCO	C1875500BT	
Sampling syringe	Yikang	YKBB0	
Scalpel	Jinzhong	J11030	
Silicon nitride beads	Celltrans	YKBI0	
Straight blood-vessel forceps	Jinzhong	J31120	
Straight Sided Jar	Nalgene	2118-0001	
Tissue forceps	Jinzhong	J41010	
Tissue scissors	Jinzhong	J21210	
Toothed forceps	Jinzhong	JD1060	
Towel forceps	Shinva	154285	
Vacutainer blood collection tube	Sanli	20150049	
Water bath	Yiheng	HWS-12	