

Materials List for

Isolation, Culture, and Adipogenic Induction of Stromal Vascular Fraction-derived Preadipocytes from Mouse Periaortic Adipose Tissue

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Materials

Name	Company	Catalog Number	Comments
0.2 µm syringe filters	PALL	4612	
12-well plate	Labselect	11210	
15 mL centrifuge tube	Labserv	310109003	
3,3',5-triiodo-L-thyronine (T3)	Sigma-Aldrich	T-2877	1 nM
50 mL centrifuge tube	Labselect	CT-002-50A	
anti-adiponectin	Abcam	ab22554	1:1,000 working concentration
anti-COX IV	CST	4850	1:1,000 working concentration
anti-FABP4	CST	2120	1:1,000 working concentration
anti-PGC1α	Abcam	ab191838	1:1,000 working concentration
anti-PPARγ	Invitrogen	MA5-14889	1:1,000 working concentration
anti-UCP1	Abcam	ab10983	1:1,000 working concentration
anti-α-Actinin	CST	6487	1:1,000 working concentration
BSA	Beyotime	ST023-200g	1%
C57BL/6 mice aged 4-8 weeks of both sexes	Shanghai Model Organisms Center, Inc.		
Cell Strainer 70 µm, nylon	Falcon	352350	
Collagen from calf skin	Sigma-Aldrich	C8919	
Collagenase, Type 1	Worthington	LS004196	1 mg/mL
Dexamethasone	Sigma-Aldrich	D1756	1 µM
Dispase II	Sigma-Aldrich	D4693-1G	4 mg/mL
Fetal bovine serum	Gibco	16000-044	10%
HEPES	Sigma-Aldrich	H4034-25G	20 mM
High glucose DMEM	Hyclone	SH30022.01	
IBMX	Sigma-Aldrich	I7018	0.5 mM

Incubator with orbital shaker	Shanghai longyue Instrument Eruipment Co.,Ltd.	LYZ-103B	
Insulin (cattle)	Sigma-Aldrich	11070-73-8	1 μ M
Isoflurane	RWD	R510-22-10	
Krebs-Ringer's Solution	Pricella	PB180347	protect from light
Microsurgical forceps	Beyotime	FS233	
Microsurgical scissor	Beyotime	FS217	
Oil Red O	Sangon Biotech (Shanghai) Co., Ltd	A600395-0050	
PBS (Phosphate-buffered saline)	Sangon Biotech (Shanghai) Co., Ltd	B548117-0500	
Penicillin-Streptomycin	Gibco	15140122	
Peroxidase AffiniPure Goat Anti-Mouse IgG (H+L)	Jackson ImmunoResearch	115-035-146	1:5,000 working concentration
Peroxidase AffiniPure Goat Anti-Rabbit IgG (H+L)	Jackson ImmunoResearch	111-035-144	1:5,000 working concentration
Rosiglitazone	Sigma-Aldrich	R2408	1 μ M
Standard forceps	Beyotime	FS225	
Surgical scissor	Beyotime	FS001	