

Materials List for:

Expansion and Adipogenesis Induction of Adipocyte Progenitors from Perivascular Adipose Tissue Isolated by Magnetic Activated Cell Sorting

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Materials

Name	Company	Catalog Number	Comments
Tissue Dissection			
Dissecting Dishes	Handmade with Silicone		
Culture Petri Dish	Pyrex		7740 Glass
Silicone Elastomer	Dow Corning	Sylgard 170	Kit
Braided Silk Suture	Harvard Apparatus	51-7615	SP104
Stereomicroscope MZ6	Leica		10447254
Stereomaster Microscope Fiber-Optic Light Source	Fisher Scientific	12562-36	
Vannas Scissors	George Tiemann & Co	160-150	
Splinter Forceps	George Tiemann & Co	160-55	
Tissue Scissors	George Tiemann & Co	105-400	
KRBB Solution			
Sodium Chloride	Sigma-Aldrich	7647-14-5	
Potassium Chloride	Sigma-Aldrich	7447-40-7	
Magnesium Sulfate	Sigma-Aldrich	7487-88-9	
Potassium Phosphate Dibasic	Sigma-Aldrich	7758-114	
Glucose	Sigma-Aldrich	50-99-7	
Antibiotic/Antimicrobial	Corning	30-004-CI	
HEPES	Corning	25-060-CI	
Tissue Digestion			
Collagenase Type 1	Worthington Biochemical	LS004196	
Bovine Serum Albumin (BSA)	Fisher Scientific	9048-46-8	
Red Blood Cell Lysis Buffer	BioLegend	420301	1X Working Solution
Water Bath	Thermo-Fisher Scientific	2876	Reciprocal Shaking Bath
Biosafety Cabinet	Thermo-Fisher Scientific	1385	
Rotisserie Incubator	Daigger	EF4894C	
100 µm Cell Strainer	Thermo-Fisher Scientific	22-363-549	Yellow
40 µm Cell Strainer	Thermo-Fisher Scientific	22-363-547	Blue
Hemocytometer	Cole-Parmer	UX-79001-00	
Trypan Blue	Sigma-Aldrich	93595	
Cell Isolation			
OctoMACS Kit	Miltenyi Biotech	130-042-108	
(DMEM):F12 Medium	Corning	90-090	Medium Base

Fetal Bovine Serum (FBS)	Corning	35016CV	USA Origins
Normal Donkey Serum	AbCam	AB7475	
Anti-CD34	Santa Cruz	SC-7324	FITC-conjugated
Anti-PDGFR α	Thermo-Fisher Scientific	PA5-17623	
Donkey Anti-Rabbit IgG	Jackson ImmunoResearch	712-007-003	
Phosphate-Buffered Saline (PBS) 10X	Corning	46-013-CM	1X Working Solution
EDTA	Fisher Scientific	15575020	
Cell Culture			
CO ₂ Cell Incubator	Thermo-Fisher Scientific	51030285	Heracell 160i
6-Well Plates	Corning	3516	TC-Treated
48-Well Plates	Corning	3548	TC-Treated
96-Well Plates, Black Wall	Corning	353376	TC-Treated
Sodium Bicarbonate	Sigma-Aldrich	144-55-8	TC-Treated
Fetal Calf Serum (FCS)	Corning	35011CV	USA Origins
Ascorbic Acid	Sigma-Aldrich	50-81-7	
Biotin	Sigma-Aldrich	58-85-5	
Pantothenate	Sigma-Aldrich	137-08-6	
L-Glutamine	Corning	61-030	
Bone Morphogenic Protein 4 (BMP4)	Prospec Bio	CYT-081	
Epidermal Growth Factor (EGF)	PeproTech	400-25	
Leukemia Inhibitory Factor	PeproTech	250-02	
Platelet-derived Growth Factor BB	Prospec Bio	CYT-740	
Basic Fibroblast Growth Factor (bFGF)	PeproTech	450-33	
Insulin	Corning	25-800-CR	ITS Solution
IBMX	Sigma-Aldrich	28822-58-4	
Dexamethasone	Sigma-Aldrich	50-02-2	
T3 (Triiodothyronine)	Sigma-Aldrich	6893-023	
Cell Analysis			
CyQUANT Proliferation Assay	Thermo-Fisher Scientific	C7026	
AdipoRed Fluorescence Assay Reagent	Lonza	PT-7009	
Oil Red O Lipid Dye Reagent	Sigma-Aldrich	O1391	In Solution
M1000 Microplate Reader	Tecan		
Eclipse Inverted Microscope	Nikon		
Digital Sight DS-Qi1 Camera	Nikon		