

Materials List for:

Isolation of Murine Adipose Tissue-derived Microvascular Fragments as Vascularization Units for Tissue Engineering

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Materials

Name	Company	Catalog Number	Comments
1.5-mL conical microcentrifuge tube	VWR, Kelsterbach, Germany	700-5239	
100-μL precision pipette	Eppendorf, Hamburg, Germany	4920000059	
10-mL measuring pipette	Costar, Corning Inc., New York, USA	4488	
14-mL PP tubes	Greiner bio-one, Frickenhausen, Germany	187261	
1-mL precision pipette	Eppendorf, Hamburg, Germany	4920000083	
500-μm filter (pluriStrainer 500 μm)	HISS Diagnostics, Freiburg, Germany	43-50500-03	
50-mL conical centrifuge tube	Greiner bio-one, Frickenhausen, Germany	227261	
50-mL Erlenmeyer flask	VWR, Kelsterbach, Germany	214-0211	
96-well plate	Greiner bio-one, Frickenhausen, Germany	65518	
cell detachment solution (Accutase)	eBioscience, San Diego, CA USA	00-4555-56	
C57BL/6 mice	Charles River, Cologne, Germany	027	
C57BL/6-Tg(CAG-EGFP)10sb/J mice	The Jackson Laboratory, Bar Harbor, USA	003291	
CD117-FITC	BD Biosciences, Heidelberg, Germany	553373	
CD31-PE	BD Biosciences, Heidelberg, Germany	553354	
Collagenase NB4G	Serva Electrophoresis GmbH, Heidelberg, Germany	17465.02	Lot tested by manufacturer for enzymatic activity
Dissection scissors	Braun Aesculap AG & CoKG, Melsungen, Germany	BC 601	
DNA-binding dye (Bisbenzimidazole H33342)	Sigma-Aldrich, Taufkirchen, Germany	B2261	
Dulbecco's modified Eagle medium (DMEM)	PAN Biotech, Rickenbach, Germany	P04-03600	
Fetal calf serum (FCS)	Biochrom GmbH, Berlin, Germany	S0615	
Fine forceps	S&T AG, Neuhausen, Switzerland	FRS-15 RM-8	
Fine scissors	World Precision Instruments, Sarasota, FL, USA	503261	
Dermal skin substitute (Integra)	Integra Life Sciences, Sain Priest, France	62021	

Ketamine	Serumwerk Bernburg AG, Bernburg, Germany	7005294	
M-IgG2akAL488	eBioscience, San Diego, CA USA	53-4724-80	
Octeniderm (disinfecting solution)	Schülke & Mayer, Norderstedt, Germany	118211	
Penicillin/Streptomycin	Biochrom, Berlin, Germany	A2213	
Petri dish	Greiner bio-one, Frickenhausen, Germany	664160	
Phosphate-buffered saline (PBS)	Lonza Group, Basel, Switzerland	17-516F	
pluriStrainer 20- μ m (20 μ m filter)	HISS Diagnostics, Freiburg, Germany	43-50020-03	
Rat-IgG2akFITC	BD Biosciences, Heidelberg, Germany	553988	
Rat-IgG2akPE	BD Biosciences, Heidelberg, Germany	553930	
Small preparation scissors	S&T AG, Neuhausen, Switzerland	SDC-15 R-8S	
Surgical forceps	Braun Aesculap AG &CoKG, Melsungen, Germany	BD510R	
Tape (Heftpflaster Seide) 1.25 cm	Fink & Walter GmbH, Mechweiler, Germany	1671801	
Xylazine	Bayer Vital GmbH, Leverkusen, Germany	1320422	
α -SMA-AL488	eBioscience, San Diego, CA USA	53-9760-82	Intracellular labeling additionally requires Cytofix/Cytoperm (BD Biosciences, Heidelberg, Germany; #554722)