

Materials List for

Engineering Tendon Assembloids to Probe Cellular Crosstalk in Disease and Repair

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jove.com/video/65987

Materials

Name	Company	Catalog Number	Comments
0.4 mm x 25 mm injection needle (G27)	Sterican	9186174	
3D printing filament: Clear polylactic acid prusament	Prusa	NA	
4% formaldehyde	Roti-Histofix	P087.4	
Accutase cell detachment solution	Sigma-Aldrich	A6964-100ML	
Amphotericin	VWR	L0009-100	
Attachable digital C-mount camera: Moticam 2	Motic	NA	
Bolt screw M3 x 16 mm, stainless steel	RS PRO	1871235	
Bolt screw M3 x 6 mm, stainless steel	RS PRO	1871207	
CaCl ₂	Sigma-Aldrich	C5670	
CD146 antibody: PE anti-mouse	BioLegend	134703	
CD206 antibody: Alexa Fluor 488 anti-mouse	BioLegend	141709	
CD31 antibody: Alexa Fluor 488 anti-mouse	BioLegend	102413	
CD86 antibody: PE anti-mouse	BioLegend	105007	
Collagenase I	Thermo Fisher Scientific	17100017	
Collagenase IV	Gibco	17104-019	
Dialyzed Fetal Bovine Serum (FBS)	Sigma-Aldrich	F0392-100ML	
Dimethyl sulfoxide (DMSO)	Sigma-Aldrich	7000183	
Dispase II	Sigma-Aldrich	D4693-1G	
DMEM/F12	Sigma	7002211	
Dowel Pin, 3 mm x 16 mm, stainless steel	Accu	HDP-3-16-A1	
Dragon Skin 10 Slow/1 silicone	KauPO	09301-004-000001	
Endopan 3 Kit	Pan-Biotech	P04-0010K	

Endothelial cell growth supplement	Lonza	CC-3162	
Eppendorf safe-lock plastic tubes (1.5 mL)	Eppendorf	30121023	
Ethidium homodimer, EthD-1, 2 mM stock in DMSO	Sigma-Aldrich	46043-1MG-F	
F4/80 antibody: Apc/fire 750 anti-mouse	BioLegend	123151	
Falcon plastic tube (15 mL)	Corning	352096	
Falcon plastic tube (50 mL)	Corning	352070	
Flow cytometer: LSR II Fortessa	BD Bioscience	23-11617-02	
Gelatin	Invitrogen	D12054	
Hellmanex III alkaline cleaning concentrate	Sigma	Z805939-1EA	
Heparin	Sigma-Aldrich	H3149-10KU	
Hydroxyproline assay	Sigma-Aldrich	MAK008	
Image analysis software: Motic Images Plus 3.0 ML	Motic	NA	
L-Ascorbic Acid Phosphate Magnesium Salt n-Hydrate	Wako Chemicals	013-19641	
LSE Low Speed Orbital Shaker	Corning	6780-FP	
MEM non-essential amino acids	Sigma	7002231	
Mouse macrophage-stimulating factor (m-CSF)	PeproTech	315-02-50ug	
MSD assay	Mesoscale Discovery	various	
NucBlue	Thermo Fisher Scientific	R37605	
Nylon mesh strainer cap, 100 µm	Corning	734-2761	
Original Prusa i3 MK3S 3D printer	Prusa	i3 MK3S	
Penicillin-Streptomycin	Sigma-Aldrich	P4333	
Phosphate-buffered saline (PBS), pH 7.4, sterile, 10 L	Gibco	10010001	
Puromycin	Gibco	A1113803	
RBC lysis buffer	VWR	786-650	
recombinant m-CSF	PeproTech	315-02	
RNA extraction kit: Rneasy plus Micro	Qiagen	74034	
Slicing software: PrusaSlicer	Prusa	NA	Version 2.6.0 or higher
Sterile Cell Strainer 100 µm	Fisherbrand	22363549	
Surgical scalpel blade No. 21	Swann-Morton	307	
Trizol reagent	Thermo Fisher Scientific	15596018	
Trypsin-EDTA (0.5 %)	Gibco	15400054	