

Materials List for:

# Pancreatic Tissue-Derived Extracellular Matrix Bioink for Printing 3D Cell-Laden Pancreatic Tissue Constructs

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## Materials

Name	Company	Catalog Number	Comments
Biological Safety Cabinets	CRYSTE	PURICUBE 1200	
Deep Freezer	Thermo Scientific Forma	957	
Digital orbital shaker	DAIHAN Scientific	DH.WSO04010	
Dry oven	DAIHAN Scientific	WON-155	
Freeze dryer	LABCONCO	7670540	
Fridge	SANSUNG	CRFD-1141	
Grater	ABM	1415605793	
Inverted Microscopes	Leica	DMI1	
Microcentrifuge	CRYSTE	PURISPIN 17R	
Microplate reader	Thermo Fisher Scientific	Multiskan GO	
Mini centrifuge	DAIHAN Scientific	CF-5	
Multi-Hotplate Stirrers	DAIHAN Scientific	SMHS-6	
Nanodrop	Thermo Fisher Scientific	ND-LITE-PR	
pH benchtop meter	Thermo Fisher Scientific	STARA2110	
Rheometer	TA Instrument	Discovery HR-2	
Vortex Mixer	DAIHAN Scientific	VM-10	
<b>Cirurgical Instruments</b>			
Operating Scissors	Hirose	HC.13-122	
Forcep	Korea Ace Scientific	HC.203-30	
<b>Materials</b>			
1.7 mL microcentrifuge tube	Axygen	MCT-175-C	
10 ml glass vial	Scilab	SL.VI1243	
40 µm cell strainer	Falcon	352340	
5 L beaker	Dong Sung Science	SDS 2400	
50 mL conical tube	Falcon	352070	
500 mL beaker	Korea Ace Scientific	KA.23-08	
500 mL bottle-top vacuum filter	Corning	431118	
500 mL plastic container	LOCK&LOCK	INL301	
96well plate	Falcon	353072	
Aluminum foil	DAEKYO		

Kimwipe	Kimtech		
Magnetic bar	Korea Ace Scientific	BA.37110-0003	
Mortar and pestle	DAIHAN Scientific	SC.MG100	
Multi-channel pipettor	Eppendorf	4982000314	
Petri Dish	SPL	10100	
pH indicator strips	Sigma-Aldrich	1095350001	
Sieve filter mesh	DAIHAN Scientific		
<b>Decellularization</b>			
10x pbs	Hyclone	SH30258.01	
4.7% Peracetic acid	Omegafarm		
70% ethanol	SAMCHUN CHEMICALS	E0220 SAM	
Distilled water			
IPA	SAMCHUN CHEMICALS	samchun I0348	
Triton-X 100	Biosesang	T1020	
<b>Biochemical assay</b>			
1,9-Dimethyl-Methylene Blue zinc chloride double salt	Sigma-Aldrich	341088	
10 N NaOH	Biosesang	S2018	
Chloramine T	Sigma-Aldrich	857319	
Chondroitin sulfate A	Sigma-Aldrich	C4384	
Citric acid	Supelco	46933	
Cysteine-HCl	Sigma-Aldrich	C1276	
Glacial acetic acid	Merok	100063	
Glycine	Sigma-Aldrich	410225	
HCl	Sigma-Aldrich	H1758	
Na <sub>2</sub> -EDTA	Sigma-Aldrich	E5134	
NaCl	SAMCHUN CHEMICALS	S2097	
Papain	Sigma-Aldrich	p4762	
P-DAB	Sigma-Aldrich	D2004	
Perchloric acid	Sigma-Aldrich	311421	
Sodium acetate	Sigma-Aldrich	S5636	
Sodium hydroxide	Supelco	SX0607N	
Sodium phosphate(monobasic)	Sigma-Aldrich	RDD007	
Toluene	Sigma-Aldrich	244511	
<b>Bioink</b>			
Charicterized FBS	Hyclone	SH30084.03	
Penicillin-Streptomycin	Thermo Fisher Scientific	15140122	
Pepsin	Sigma-Aldrich	P7215	
Rose bengal	Sigma-Aldrich	198250	
RPML-1640 medium	Thermo Fisher Scientific	11875093	
Trypan Blue solution	Sigma-Aldrich	T8154	