

Materials List for

Developing 3D Organized Human Cardiac Tissue within a Microfluidic Platform

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jove.com/video/62539

Materials

Name	Company	Catalog Number	Comments
0.65 mL centrifuge tubes	VWR	87003-290	
1 mm Biopsy punch	VWR	95039-090	
1.5 mm Biopsy punch	VWR	95039-088	
15 mL Falcon tubes	VWR	89039-670	
18x18mm coverslips	VWR	16004-308	The coverslips should be No.1, to allow for high magnification imaging
4% paraformaldehyde	ThermoFisher	101176-014	
6-well flat bottom tissue-culture plates	VWR	82050-844	
B27 minus insulin	LifeTech	A1895602	
B27 plus insulin	LifeTech	17504001	
CHIR99021	VWR	10188-030	
Collagen I, rat tail	Corning	47747-218	
DMEM F12	ThermoFisher	11330057	
DPBS	ThermoFisher	21600069	
E8	ThermoFisher	A1517001	can also be made in house
EDTA	VWR	45001-122	
Ethanol			
FGM3	VWR	10172-048	
GFR-Matrigel	VWR	47743-718	
Glycine	Sigma	G8898-500G	
Goat serum	VWR	10152-212	
hESC-Matrigel	Corning	BD354277	
IPA			
IWP2	Sigma	I0536-5MG	
Kimwipes	VWR	82003-820	
MTCS	Sigma	440299-1L	
NaN ₃	Sigma	S2002-25G	

NaOH	Sigma	S5881-500G	
Pen/Strep	VWR	15140122	
Petri dish (150x15mm)	VWR	25384-326	
Petri dish (60x15mm)	VWR	25384-092	
Phenol Red	Sigma	P3532-5G	
RPMI 1640	ThermoFisher	MT10040CM	
RPMI 1640 minus glucose	VWR	45001-110	
Silicon Wafers (100mm)	University Wafer	1196	
Sodium lactate	Sigma	L4263-100ML	
SU8 2075	Microchem	Y111074 0500L1GL	
SU8 Developer	ThermoFisher	NC9901158	
Sylgard Elastomer	Essex Brownell	DC-184-1.1	
T75 flasks	VWR	82050-856	
Triton X-100	Sigma	T8787-100ML	
TrypLE	ThermoFisher	12604021	
Trypsin-EDTA (0.5%)	ThermoFisher	15400054	
Tween20	Sigma	P9416-50ML	
Y-27632	Stem Cell Technologies	72304	
EVG620 Aligner	EVG		
Plasma cleaner PDC-32G	Harrick Plasma		
Zeiss AxioObserver Z1 microscope	Nikon		
Leica SP8 Confocal microscope	Leica		