

Materials List for:

Generation of Aligned Functional Myocardial Tissue Through Microcontact Printing

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Materials

Name	Company	Catalog Number	Comments
L-Ascorbic Acid	Sigma-Aldrich	A4544	Prepare 0.1M solution in ddH ₂ O
Desiccator, Vacuum 10 inch	Nova-Tech International, Inc.	55206	
4',6-Diamidino-2-Phenylindole, Dihydrochloride (DAPI)	Life Technologies	D1306	
Dulbecco's Modified Eagle Medium	Thermo Scientific	SH30022.01	
DPBS	Gibco	14190	
FACSAria II Flow Cytometer	BD Biosciences		
Fetal Bovine Serum ES cell-grade	Gemini Bio-Products	100-106	
Fetal Bovine Serum Differentiation-grade	Gemini Bio-Products	100-500	
Fibronectin from bovine plasma	Sigma-Aldrich	F4759	Solubilize to 1 mg/ml in ddH ₂ O
Fisherfinest Premium Cover Glass 22x22mm	Fisher Scientific	12-548-B	
Gelatin from porcine skin	Sigma-Aldrich	G1890	Prepare 0.1% solution in ddH ₂ O
Headway Spin Coater	Headway Research, Inc.	PWM32-PS-CB15	
Iscove's Modified Dulbecco's Medium	Thermo Scientific	SH30228.01	
Leukemia Inhibitory Factor	Self-prepared from LIF-secreting cell lines		Prepare 500x stock solution
MEM Non-Essential Amino Acids	Gibco	11140-050	
2-Mercapto-ethanol	Sigma-Aldrich	M6250	
Mouse Embryonic Fibroblasts	Harvested from day 12-15 mouse embryos		
Penicillin-Streptomycin	Gibco	15140-122	
Pluronic F-127	Sigma-Aldrich	P2443	Prepare 1% solution in ddH ₂ O
Round-Bottom Tube with 35 µm cell strainer	BD Biosciences	352235	
SPI Plasma-Prep II Plasma Cleaner	SPI Supplies	11005-AB	
Sylgard 184 Silicone Elastomer Kit	Dow Corning	184 SIL ELAST KIT 0.5KG	
0.25% Trypsin-EDTA	Gibco	25200-056	
Vacuum Gauge	SPI Supplies	11019-AB	