

Materials List for:

# In Vitro Generation of Heart Field-specific Cardiac Progenitor Cells

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## Materials

Name	Company	Catalog Number	Comments
β-mercaptoethanol	Sigma	M6250	
0.1% (w/v) Gelatin	EMD Millipore	ES-006-B	
100 mM Sodium Pyruvate	Gibco	11360	
100x Pen/Strep	Gibco	15070-063	
1x PBS w/o Calcium and Magnesium	Thermo Fisher Scientific	21-040-CV	
20% Paraformaldehyde	Thermo Fisher Scientific	50-980-493	
5 mL Polystyrene round-bottom tube with a 40µm cell strainer	BD Falcon	35223	
Activin A	R & D Systems	338-AC-010	
Ascorbic Acid	Sigma	A-4544	
B27 minus vitamin A (50x)	Thermo Fisher Scientific	12587010	
BMP4	R & D Systems	314-BP	
Bovine Serum Albumin	Sigma	A2153	
Cell sorter	Sony	SH800	Sony or any other fluorescence-activated cell sorter
Cell strainer 70µm	Thermo Fisher Scientific	08-771-2	
Centrifuge Sorvall Legend XT	Thermo Fisher Scientific	75004508	
CHIR99021	Selleck chemicals	S2924	
CO <sub>2</sub> Incubator	Thermo Fisher Scientific	51030285	
Corning Ultra Low Attachment T75 flask	Corning	07-200-875	
Countless II FL automated cell counter	Thermo Fisher Scientific		
Donkey anti-mouse IgG secondary antibody, Alexa Fluor 647 conjugate	Thermo Fisher Scientific	A-31571, Lot #1757130	
Dulbecco's Modified Eagle's Medium high glucose (DMEM)	Gibco	11965-092	
EDTA	Sigma	E6758	
ESGRO (LIF)	Millipore	ESG1106	
EVOS FL microscope	Thermo Fisher Scientific	AMF4300	
Fetal Bovine Serum	Invitrogen	SH30071.03	
Glasgow's MEM (GMEM)	Gibco	11710035	
GlutaMAX (100x)	Gibco	35050-061	
Ham's F12	Gibco	10-080-CV	
HEPES	Sigma	H3375	
IMDM	Gibco	12440053	

Monothioglycero (MTG)	Sigma	M-6145	
Mouse anti-Troponin T antibody	Thermo Fisher Scientific	MS-295-P1	
N2-SUPPLEMENT	Gibco	17502-048	
Non-essential amino acid solution (NEAA)	Invitrogen	11140-050	
PD0325901	Selleckchem	S1036	
PerCP-eFluor 710 conjugated anti-Cxcr4 antibody	Thermo Fisher Scientific	46-9991-82	
Suspension culture dish 150 mm x 25 mm	Corning	430597	
T25 flasks	Corning	353109	
TrypLE (Trypsin)	Gibco	12604	
Y-27632 (ROCK inhibitor)	Stem cell technologies	72304	