

Materials List for:

# Derivation of Cardiac Progenitor Cells from Embryonic Stem Cells

Ieng Lam Lei<sup>1</sup>, Lei Bu<sup>2</sup>, Zhong Wang<sup>1</sup>

<sup>1</sup>Cardiac Surgery, University of Michigan

<sup>2</sup>Leon H Charney Division of Cardiology, New York University School of Medicine

Correspondence to: Lei Bu at [Lei.Bu@med.nyu.edu](mailto:Lei.Bu@med.nyu.edu), Zhong Wang at [zhongw@med.umich.edu](mailto:zhongw@med.umich.edu)

URL: <https://www.jove.com/video/52047>

DOI: [doi:10.3791/52047](https://doi.org/10.3791/52047)

## Materials

Name	Company	Catalog Number	Comments
FBS	Thermo scientific	SH30070.03E	
Knockout SR	Life technology	10828028	
Knockout DMEM	Life technology	10829018	
DMEM	Life technology	11965118	
NEAA	Life technology	11140050	
GlutaMAX	Life technology	35050061	
N2	Life technology	17502048	
B27	Life technology	12587010	
Ham's F12	Life technology	11765062	
IMDM	Life technology	12440061	
Pen/Strep	Life technology	15140122	
Pyruvate	Life technology	11360070	
Dispase	Life technology	17105041	
Stempro-34	Life technology	10639011	
DMEM/F12	Life technology	11330032	
BSA	Life technology	15260037	
Trypsin	Life technology	25200056	
Ascorbic Acid	Sigma	A5960	
1-Thioglycerol	Sigma	M1753	
2-Mercaptoethanol	Sigma	M3148	
VEGF	R&D	293-VE	
Bmp4	R&D	314-BP	
ActivinA	R&D	338-AC	
bFgf	R&D	233-FB	
Fgf10	R&D	345-FG	
mTeSR	Stemcell technologies	5850	
Matrigel	BD Biosciences	354277	