

Materials List for:

# Generation of Ventricular-like hiPSC-derived Cardiomyocytes and High-quality Cell Preparations for Calcium Handling Characterization

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## Materials

Name	Company	Catalog Number	Comments
Anti-Actin, $\alpha$ -Smooth Muscle antibody, Mouse monoclonal	Sigma Aldrich	A5228	
Alexa Fluor 488 goat anti mouse	Invitrogen	A11001	
Alexa Fluor 555 goat anti rabbit	Invitrogen	A21428	
B27 Supplement	Gibco	17504-044	
B27(-) insulin Supplement	Gibco	A18956-01	
CHIR-99021	Selleckchem	S2924	
DAPI nuclear stain	ThermoFisher	D1306	
DMEM/F12 (1:1) (1X) + L-Glutamine + 15mM HEPES	Gibco	11330-032	
Double Ended Cell lifter, Flat blade and J-Hook	Celltreat	229306	
Falcon Multiwell Tissue Culture Plate, 6 well	Corning	353046	
Fluidic inline heater	Live Cell Instrument	IL-H-10	
Fura-2, AM	Invitrogen	F1221	
hESC-qualified matrix	Corning	354277	Matrigel Matrix
hiPSC media	Gibco	A33493-01	StemFlex Basal Medium
IWR-1	Sigma Aldrich	I0161	
Live cell imaging chamber	Live Cell Instrument	EC-B25	
MLC-2A, Monoclonal Mouse Antibody	Synaptic Systems	311011	
Myocyte calcium and contractility system	Ionoptix	ISW-400	
Myosin Light Chain 2 Antibody, Rabbit Polyclonal (MLC2V)	Proteintech	10906-1-AP	
Nalgene Rapid Flow Sterile Disposable Filter units with PES Membrane	ThermoFisher	124-0045	
PBS with Calcium and Magnesium	Corning	21-030-CV	
PBS without Calcium and Magnesium	Corning	21-031-CV	
Premium Glass Cover Slips	Lab Scientific	7807	
RPML medium 1640 (-) D-glucose (1X)	Gibco	11879-020	
RPML medium 1640 (1X)	Gibco	11875-093	
Sodium L-lactate	Sigma Aldrich	L7022	
StemFlex Supplement	Gibco	A33492-01	

Thiazovivin	Tocris	3845	
Trypsin-EDTA (0.25%)	ThermoFisher	25200056	
Tyrode's solution	Boston Bioproducts	BSS-355w	Adjust pH at 7.2. Add 1.2mM Calcium Chloride