

# A Simple and Effective Method to Consistently Isolate Mouse Cardiomyocytes

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jove.com/video/63056

## Materials

Name	Company	Catalog Number	Comments
10 cc Bd Luer-Lok Syringe	Fisher Sci	14-827-52	
10 mL Pyrex Low-Form Beaker	Cole-Palmer	UX-34502-01	
100 mL polypropylene cap glass media storage bottle	DWK Life Sciences	UX-34523-00	
14 mL Round-Bottom Polypropylene Test Tubes With Cap	Fisher Sci	14-959-11B	
2,3-Butanedione Monoxime	Sigma	B0753	>98%
3 cc BD Luer-Lok Syringe	Fisher Sci	14-823-435	
35 mm glass bottom dishes	MatTek Corporation	P35G-1.0-20-C	
50 mL BD Syringe without Needle	Fisher Sci	13-689-8	
50 mL Conical Centrifuge Tubes	Cole-Palmer	EW-22999-84	
95% O <sub>2</sub> 5% CO <sub>2</sub>			
AIMS Space Gel Heating Pad	Fisher Sci	14-370-223	
BD PrecisionGlide 27 G X 1/2" Hypodermic Needles	Becton Dickinson	305109	
Bovine Serum Albumin	Sigma	A3803	Heat shock fraction, lyophilized powder, essentially fatty acid free, >98%
Calcium Chloride dihydrate	Sigma	C7902	>99%
D-(+)-Glucose	Sigma	G7021	Suitable for cell culture, >99.5%
DMEM	Fisher Sci	11965092	
EDTA	Fisher Sci	AAA1071336	
Falcon 100 mm TC-treated Cell Culture Dish	Corning	353003	
FBS	R&D Systems (Bio-technie)	S11195	
Fisherbrand Isotemp Heated Immersion Circulators	Fisher Sci	13-874-432	
Hartman Mosquito Hemostatic Forceps	World Precision Instruments	15921	

Hausser Scientific Hy-Lite Counting Chamber Set	Fisher Sci	02-671-11	
HEPES	Sigma	H4034	>99.5%
Labeling Tape	Fisher Sci	15-901-10R	
Legato 100 Syringe Pump	kdScientific	788100	
L-glutathione	Fisher Sci	ICN19467980	
Liberase TH Research Grade	Sigma	5401135001	High thermolysin concentration
M199	Fisher Sci	MT10060CV	
Magnesium Chloride	Invitrogen	AM9530G	
Mouse Laminin	Corning	354232	
Pen/Strep	Fisher Sci		
Potassium Chloride	Sigma	P5405	>99%
Precision Digital Reciprocating Water Bath	ThermoFisher Scientific	TSCIR19	
Sodium Bicarbonate	Sigma	S5761	Suitable for cell culture
Sodium Chloride	Sigma	S5886	>99%
Sodium phosphate monobasic	Sigma	S5011	>99%
Sterile Cell Strainer 70 µm	Fisher Sci	22-363-548	
Student Fine Scissors	Fine Science Tools	91460-11	
VWR Absorbent Underpads	Fisher Sci	NC9481815	