

Materials List for

Modifications of the Langendorff Method for Simultaneous Isolation of Atrial and Ventricular Myocytes from Adult Mice

Kui Wu¹, Lin-Ling Li², Yu-Kun Li¹, Xiao-Dong Peng¹, Meng-Xia Zhang¹, Ke-Sen Liu¹, Xue-Si Wang¹, Jia-Xue Yang¹, Song-Nan Wen¹, Yan-Fei Ruan¹, Nian Liu¹, Rong Bai¹

¹Department of Cardiology, Beijing Anzhen Hospital, Capital Medical University ²Department of Cardiology, Beijing Chuiyangliu Hospital

Corresponding Author

Rong Bai
bairong74@gmail.com

Citation

Wu, K., Li, L.L., Li, Y.K., Peng, X.D., Zhang, M.X., Liu, K.S., Wang, X.S., Yang, J.X., Wen, S.N., Ruan, Y.F., Liu, N., Bai, R. Modifications of the Langendorff Method for Simultaneous Isolation of Atrial and Ventricular Myocytes from Adult Mice. *J. Vis. Exp.* (171), e62514, doi:10.3791/62514 (2021).

Date Published

May 13, 2021

DOI

10.3791/62514

URL

jove.com/video/62514

Materials

Name	Company	Catalog Number	Comments
2,3-butanedione monoxime (BDM)	Sigma-Aldrich	31550	
Bull Serum Albumin (BSA)	Sigma-Aldrich	A2153	
CaCl ₂	Sigma-Aldrich	C4901	
Collagenase type II	Worthington	43D14160	
Excel			data acquisition and analysis
Fetal Bovine Serum (FBS)	Zhejiang Tianhang Biotechnology	150207	
Glucose	Sigma-Aldrich	G7528	
HEPES	Sigma-Aldrich	H3375	
HEPES	Sigma-Aldrich	H3375	
KCl	Sigma-Aldrich	P9333	
KH ₂ PO ₄	Sigma-Aldrich	P5655	
KHCO ₃	Sigma-Aldrich	237205	
MgCl ₂	Sigma-Aldrich	M8266	
MgSO ₄	Sigma-Aldrich	M7506	
Na ₂ HPO ₄	Sigma-Aldrich	S7907	
NaCl	Sigma-Aldrich	S7653	
NaHCO ₃	Sigma-Aldrich	S5761	
Origin 8.5	OriginLab, Northampton, MA,US		data acquisition and analysis
Peristaltic pump	Longerpump	BT100-2J	
Sodium pentobarbital	Shanghai Reagent Factory	810923	
Taurine	Sigma-Aldrich	T0625	
Trypan blue	Solarbio	C0040	
Trypsin	Invitrogen	15090046	

Water bath	JULABO	ED (v.2)	
------------	--------	----------	--