

Materials List for:

Simultaneous Measurement of Mitochondrial Calcium and Mitochondrial Membrane Potential in Live Cells by Fluorescent Microscopy

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Materials

Name	Company	Catalog Number	Comments
Dulbecco's Modified Eagle Medium (DMEM)	ThermoFisher	10566016	
fetal bovine serum (FBS)	ThermoFisher	16000044	
1x phosphate buffered saline (PBS)	ThermoFisher	10010023	
100x penicillin/streptomycin (p/s)	ThermoFisher	15140122	
0.25% Trypsin/0.25% EDTA	ThermoFisher	25200056	
8-well chambered coverslip	ibidi	80826	
NaCl	Sigma-Aldrich	793566	
KCl	Sigma-Aldrich	P9541	
MgSO ₄	Sigma-Aldrich	746452	
KH ₂ PO ₄	Sigma-Aldrich	795488	
D-glucose	Sigma-Aldrich	G8270	
CaCl ₂	Sigma-Aldrich	746495	
HEPES	Sigma-Aldrich	H3375	
MgCl ₂	Sigma-Aldrich	M2670	
EGTA	Sigma-Aldrich	E4378	
HEDTA	Sigma-Aldrich	H8126	
malate	Sigma-Aldrich	M1000	
glutamate	Sigma-Aldrich	G1626	
ADP	Sigma-Aldrich	A5285	
Ca ²⁺ free Hank's buffered salt solution (HBSS)	ThermoFisher	14175-095	
tetramethylrhodamine, methyl ester, perchlorate (TMRM)	ThermoFisher	T668	
Verapamil	Sigma-Aldrich	V4629	
Fluo-4 acetoxymethyl ester (Fluo-4, AM)	ThermoFisher	F14201	
dimethyl sulfoxide (DMSO)	ThermoFisher	D12345	
carbonyl cyanide p-trifluoromethoxyphenylhydrazone (FCCP)	Sigma-Aldrich	C2920	
digitonin	Sigma-Aldrich	D141	
thapsigargin	Sigma-Aldrich	T9033	

Pluronic F-127	ThermoFisher	P3000MP	
hemacytometer	VWR	631-0925	
10 cm cell culture dishes	Corning	COR430167	
75 cm ² cell culture flasks	Corning	COR430641	