

Materials List for:

Simultaneous pH Measurement in Endocytic and Cytosolic Compartments in Living Cells using Confocal Microscopy

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URL: <https://www.jove.com/video/51395>

DOI: [doi:10.3791/51395](https://doi.org/10.3791/51395)

Materials

Name	Company	Catalog Number	Comments
Solutions for calibration			
Sodium chloride	Fischer	L-11621	
Potassium chloride	Fischer	M-12445	
D-Glucose (dextrose)	Fischer	D16-1	
Magnesium sulfate	Fischer	M65-500	
HEPES	Sigma-Aldrich	H3375	
Calcium chloride dihydrate	Fischer	M-1612	
Deionized water	N/A	N/A	
Nigericin	Calbiochem	481990	Toxic by inhalation or in contact with skin
Keep protected from the light at 4 °C			
Culture dishes # 35mm	BD Biosciences	354456	
pH-sensing probes			
8-Hydroxypyrene-1,3,6-trisulfonic acid (HPTS)	Life technologies	H-348	Keep away from the light at room temperature
5-(and-6)-Carboxy SNARF®-1, Acetoxymethyl Ester, Acetate	Life technologies	C-1271	Keep away from the light and humidity at -20 °C
Dimethyl Sulfoxide (DMSO)	Fischer	BP231-1	Harmful
Phosphate buffered saline (PBS) 100X			
Potassium chloride	Fischer	M-12445	20 g
Sodium phosphate monobasic	Fischer	S369-1	115 g
Potassium phosphate monobasic	J.T Baker	3246-01	20 g
Deionized water	N/A	N/A	Bring to 1 L
Autoclave and adjust pH to 7.4			
Phosphate buffered saline (PBS) 1X			
PBS 100X	N/A	N/A	50 ml
Sodium chloride	Fischer	L-11621	40.5 g
Deionized water	N/A	N/A	Bring to 5 L
pH modulators			
Bafilomycin A1	Sigma-Aldrich	B-1793	
5-(N-Ethyl-N-isopropyl)amiloride (EIPA)	Sigma-Aldrich	A3085	
Ammonium chloride	Fischer	A649-500	