

Materials List for:

Permeabilization of Adhered Cells Using an Inert Gas Jet

Scott Cooper¹, Paul Jonak¹, Guillaume Chouinard-Pelletier¹, Sylvain Coulombe¹, Elizabeth Jones¹, Richard L. Leask^{1,2}

¹Chemical Engineering, McGill University

²Montreal Heart Institute

Correspondence to: Richard L. Leask at richard.leask@mcgill.ca

URL: <https://www.jove.com/video/50612>

DOI: [doi:10.3791/50612](https://doi.org/10.3791/50612)

Materials

Name	Company	Catalog Number	Comments
Vitality hrGFP11-1	Agilent Technologies Canada	240143-57	Green fluorescent protein for transfection experiments on HeLa cells
Dextran, AlexaFluor 488; 10,000 MW, Anionic, Fixable	Life Technologies Inc.	D22910	dextran for permeabilization experiments
LIVE/DEAD Viability/Cytotoxicity Kit	Life Technologies Inc.	L3224	for counterstaining of mammalian cells
Prolong Gold Antifade Reagent	Invitrogen	P36930	for mounting slides when imaging
Ultra High Purity Helium	Praxair Canada Inc.	HE 5.0UH-T	
Hyclone DMEM/ High Glucose Media - 500 ml	Thermo Scientific	SH30022.01	for HeLa cells
Fetal Bovine Serum	Invitrogen	26140079	For DMEM media
Penicillin-Streptomycin, liquid	Invitrogen	15140-122	For DMEM media
Phosphate-Buffered Saline (PBS) 1x			Produced in lab
			Table 1. List of required reagents
6-Well Clear TC-Treated Microplates	Corning	3506	
#1 22 x 22 Coverslips	Fisher	12-542B	
Glass Capillaries	World Precision Instruments		WPI Sizing Information
ID (mm): 1, 0.86, 0.68, 0.5 Order #: 1B200, 1B150, 1B120, 1B100			
Mass-Flo Controller	MKS	M100B01314CS1BV	Mass flow controller, Series M100B, requires an external 12 V power supply
USB-6009 DAQ Device	National Instruments	779026-01	
UniSlide Assembly with stepping motor and controller	Velmex		Two series MA15 UniSlide Assemblies, fitted with Vexta 1.8° stepping motors provided by Velmex, and controlled by a VXM Stepping Motor Controller
			Table 2. List of required equipment