

Materials List for:

Assessment of Mitochondrial Functions and Cell Viability in Renal Cells Overexpressing Protein Kinase C Isozymes

Grażyna Nowak¹, Diana Bakajsova¹

¹Department of Pharmaceutical Sciences, College of Pharmacy, University of Arkansas for Medical Sciences

Correspondence to: Grażyna Nowak at gnowak@uams.edu

URL: <https://www.jove.com/video/4301>

DOI: [doi:10.3791/4301](https://doi.org/10.3791/4301)

Materials

Name	Company	Catalog Number	Comments
Laminar flow hood	Thermo Electron Corporation	FORMA 1104	
2 ml and 15 ml Dounce tissue grinder	WHEATON	989-24607, 357544	
85 and 235 micron nylon mesh	Small Parts	CMN - 0085 - 10YD CMN - 0250 - 10YD	
50 ml sterile centrifuge tube	BIOLOGIX	BCT-P 50BS	
1.5 ml micro tube	Sarstedt	72.690.001	
35 x 10 mm sterile culture dishes	Corning	430165	
Jouan Centrifuge	Jouan	Jouan CR3 11175704 Rotors: Jouan T40	
Adjustable micro-centrifuge	SIGMA	Model 1 - 15	
Biological Oxygen Monitor	YSI Incorporated	YSI Model 5300A	
Single Chamber Micro Oxygen System	YSI Incorporated	5356S	
Oxygen Probe	YSI Incorporated	5331A	
Circulating Bath	YSI Incorporated	5310	
KCl and Standard Membrane Kit	YSI Incorporated	5775	
Magnetic Stirrer	YSI Incorporated	5222	
Flatbed Recorder	Kipp Zonen	BD 11E	
48-well and 96-well transparent plates	Costar	3548, 3679	
Thermomixer R	Eppendorf	5355 21919	
Orbital shaker MAXQ 2000	Thermo Scientific	SHKA 2000	
Spectra FLUOR Plus (absorbance/fluorescence/luminescence reader)	Tecan	F129005	
Water-Jacketed US Autoflow Automatic CO ₂ Incubator	NUAIRE	NU 4850	
12x75 mm polystyrene culture test tubes for flow cytometry	Fisher Brand	14-961-20	
Axioskop Water immersion objective 63x / 0,90W	Carl Zeiss	114846 ACHROPLAN 44 00 67	
DMEM / F12	Cellgro	99 - 830 - PB	
DMEM / F12 Ham	Sigma	D 2906 - 1L	
Deferoxamine Mesylate	Hospira	D110	
Collagenase Type I	Worthington	4196	
Trypsin inhibitor	Sigma	T 6522 - 500mg	

5,5',6,6'-tetrachloro-1,1',3,3'-tetraethylbenzimidazolylcarbocyanine iodide (JC-1)	Invitrogen	T3168	
Mitotracker Red	Invitrogen	M22425	
ATP Bioluminescence Assay Kit HS II	Roche	11 699 709 001	
Annexin V - FITC solution	BioVision	1001 - 200	
Flow cytometer	BD Biosciences	BD FACSCalibur	