

Materials List for:

Respirometric Oxidative Phosphorylation Assessment in Saponin-permeabilized Cardiac Fibers

Curtis C. Hughey¹, Dustin S. Hittel^{1,2}, Virginia L. Johnsen², Jane Shearer^{1,2}

¹Department of Biochemistry and Molecular Biology, Faculty of Medicine, University of Calgary

²Faculty of Kinesiology, University of Calgary

Correspondence to: Curtis C. Hughey at cchughey@ucalgary.ca

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Materials

Name	Company	Catalog Number	Comments
100% Ethanol	Fisher Scientific	HC600	
70% Ethanol	Fisher Scientific	HC-1000	
Adenosine 5'-diphosphate monopotassium salt dihydrate (ADP)	Sigma-Aldrich	A5285	
Albumin from bovine serum essentially fatty acid-free	Sigma-Aldrich	A-6003	
Antimycin A	Sigma-Aldrich	A8674	
Ascorbic acid	Sigma-Aldrich	A4403	
Adenosine 5'-triphosphate disodium salt hydrate (ATP)	Sigma-Aldrich	A2383	
Atractyloside	Sigma-Aldrich	A6882	
Calcium carbonate	Sigma-Aldrich	C4830	
Carbonyl cyanide p-(trifluoromethoxy) phenylhydrazone (FCCP)	Sigma-Aldrich	C2920	
Cytochrome c	Sigma-Aldrich	C7752	
Digitonin	Sigma-Aldrich	D141	
Dithiothreitol	Sigma-Aldrich	D9779	
Ethylene glycol-bis-(2-amin-thylether)-N,N,N',N'-tetraacetic acid (EGTA)	Sigma-Aldrich	E4378	
Glutamic acid	Sigma-Aldrich	27647	
HEPES	Sigma-Aldrich	H4034	
Imidazole	Sigma-Aldrich	I5513	
Ketamine	Pfizer Pharma GmbH		Ketaset
Lactobionic acid	Sigma-Aldrich	153516	
Magnesium chloride (MgCl ₂)	Sigma-Aldrich	M9272	
Magnesium chloride hexahydrate (MgCl ₂ ·6H ₂ O)	Sigma-Aldrich	M9272	
Malic acid	Sigma-Aldrich	M1000	
MES	Sigma-Aldrich	M3671	
N,N,N',N'-Tetramethyl-pphenylenediamine Dihydrochloride (TMPD)	Sigma-Aldrich	T3134	
Oligomycin	Sigma-Aldrich	O4876	
Phosphocreatine	Sigma-Aldrich	P7936	

Potassium Chloride	Sigma-Aldrich	P9541	
Potassium Hydroxide	Sigma-Aldrich	P5958	
Potassium cyanide	Fluka	60178	
Potassium phosphate monobasic	Sigma-Aldrich	P5655	
Rotenone	Sigma-Aldrich	R8875	
Saponin	Sigma-Aldrich	47036	
Sodium Pentobarbital	Ceva Sante Animale	1715 138	Conc. 54.7 mg/ml
Sodium pyruvate	Sigma-Aldrich	P2256	
Succinic acid	Sigma-Aldrich	S3674	
Sucrose	Sigma-Aldrich	S7903	
Taurine	Sigma-Aldrich	T8691	
Xylazine	Bayer AG		Rompun
ddH ₂ O			
Ice			
Oroboros Oxygraph-2k	Oroboros Instruments		
Kimwipes	VWR international	21905-026	
15ml polypropylene centrifuge tubes	VWR international	89004-368	
50ml polypropylene centrifuge tubes	VWR international	89004-364	
Straight Jewelers Forceps	George Tiemann & Co.	160-50B	
Curved Jewelers Forceps	George Tiemann & Co.	160-57B	
Straight Surgery Scissors	George Tiemann & Co.	105-402	
Sterile Surgical Blade	VWR international	BD371610	
0.45-µm Syringe filters	VWR international	CA28145-485	
pH meter	VWR international	CA11388-308	
Glass Petri dishes	VWR international	89000-300	
12-well Polystyrene Tissue Culture Plates	VWR international	82050-926	
Plate Stirrer	VWR international	97042-594	
Fisherbrand Microbars	Fisher Scientific	14-511-67	
Weigh Scale	VWR international	CA11278-162	
10µl Hamilton Micro Syringe	Fisher Scientific	14-815-1	
25µl Hamilton Micro Syringe	Fisher Scientific	14-824-7	
50µl Hamilton Micro Syringe	Fisher Scientific	14-824-5	
Nalgene Squeeze Bottles	Wilkem Scientific	LNA2407-1000	
Polystyrene Weighing Dishes	VWR international	89106-750	
Dissecting Microscope	Olympus Corporation		