

Materials List for

Assessment of Open Probability of the Mitochondrial Permeability Transition Pore in the Setting of Coenzyme Q Excess

Keren K. Griffiths¹, Aili Wang¹, Richard J. Levy¹

¹Department of Anesthesiology, Columbia University Medical Center

Corresponding Author

Keren K. Griffiths

kg2549@cumc.columbia.edu

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Materials

Name	Company	Catalog Number	Comments
4-(2-hydroxyethyl)-1-piperazineethanesulfonic acid (HEPES)	Fisher Scientific	15630080	
Adapted plunger assembly for pH or ion-selective electrodes for use with OXYT1	PP systems	941039	
BD Intramedic PE Tubing, PE 50, 0.023 in. 10 ft.	Fisher Scientific	14-170-11B	to modify the length of the hamilton syringe as needed
Bovine Serum Albumin (BSA). Fatty acid free	Sigma	A7030-10G	
Dri-Ref Reference Electrode, 2 mm	World Precision Inst. LLC	DRIREF-2	
Electrode Holder for KWIK-Tips	World Precision Inst. LLC	KWIK-2	ion selective electrode holder
Ethylene glycol-bis(β-aminoethyl ether)-N,N,N',N'-tetraacetic acid (EGTA)	Sigma	324626	
FVB.129P2-Pde6b ⁺ Tyr ^{c-ch} Fmr1 ^{tm1Cgr/J}	Jackson Laboratory, Bar Harbor, ME		FXS mice, <i>Fmr1</i> KO
FVB.129P2-Pde6b ⁺ Tyr ^{c-ch} /AntJ	Jackson Laboratory, Bar Harbor, ME		FVB mice
Hamilton 80366 Standard Syringes, 10 uL, Cemented-Needle, 6/pk	Cole-Parmer	EW-07938-30	microsyringe
Hamilton 80500 Standard Microliter Syringes, 50 uL, Cemented-Needle	Cole-Parmer	EW-07938-02	microsyringe
Hansatech Instruments Oxytherm+ System (Respiration) Complete	PP systems	OXYTHERM+R	oxygen electrode and software
Magnesium Chloride (MgCl ₂)	Sigma	1374248	
Mannitol	Sigma	M9546-250G	
P1,P5-diadenosine-5' pentaphosphate pentasodium (AP5A)	Sigma	D4022-10MG	

Percoll	Sigma	P1644	medium for density gradient separation
Potassium chloride (KCl)	Sigma	P3911	
Potassium dihydrogen phosphate (KH ₂ PO ₄)	Sigma	5.43841	
Sucrose	Sigma	S0389	
TPP ⁺ Electrode Tips (3)	World Precision Inst. LLC	TIPTPP	