

Materials List for:

Isolation and Functional Analysis of Mitochondria from Cultured Cells and Mouse Tissue

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Materials

Name	Company	Catalog Number	Comments
L-glutamic acid	Sigma	G1251	Can use the potassium salt instead.
malic acid	Sigma	M8304	Can use the potassium salt instead.
KH ₂ PO ₄	Sigma	P0662	
K ₂ HPO ₄	Sigma	P3786	
EGTA	Sigma	E3889	
Trisma base	Sigma	T6066	
MOPS	Sigma	M3183	
CCCP	Sigma	C2920	Dilute down to 100 µM as a working stock in ethanol and store at -20 °C.
Valinomycin	Sigma	V0627	Make in DMSO and use as a 5 µM working stock. Store at -20 °C.
sucrose	Fisher	S5-500	
KCN	Mallinckrodt	6379	Make a concentrated stock in ethanol and then dilute with water
rotenone	Sigma	R8875	Highly toxic. Made in ethanol.
oligomycin	Sigma	O4876	Highly toxic. Made in ethanol.
ADP	Sigma	A2754	
TMRE	Sigma	8717-25mg	Dilute 100 µM stock with EB immediately before use.
DMEM	Gibco	11965-084	1x regular (high glucose).
Pen/Strep	Invitrogen	15140-155	
L-glutamine	Fisher	SH3002101	Store aliquots at -20 °C
FBS	Lonza	14-501F	US origin, premium quality. Heat inactivate and store aliquots at -20 °C.
Trypsin-EDTA	Sigma	T4049	
DMSO	Sigma	D2650	
Protein Assay Dye (5x)	Bio-Rad	500-0006	Any protein assay can substitute.
BSA	Fisher	BP1600-100	Make 2 mg/ml stock in water for protein assay.

MTT powder	Sigma	M2128	Filter sterilize 5 mg/ml stock made in PBS. Store aliquots at -20 °C; store at 4 °C for up to 1 week.
Tergitol solution (NP-40)	Sigma	NP40S	
Recombinant Human IL-1B	Gibco	PCH08014	Once opened store aliquots at -20 °C
Recombinant Human TNF-alpha	Gibco	PHC3015L	
Recombinant Human IFN-gamma	Gibco	PHC4031	
Dulbeccos PBS (-/-)	Sigma	D8537	Make sure it is without Mg ²⁺ and Ca ²⁺ ions.
Cytochrom c ELISA kit	R&D systems	DTC0	Human for HEK-293T cells.