

Materials List for

Measurement of Protein Import Capacity of Skeletal Muscle Mitochondria

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jove.com/video/63055

Materials

Name	Company	Catalog Number	Comments
0.2% BSA	Sigma	A2153	
35S-methionine	Perkin Elmer	NEG709A500UC	Purchase requires a valid radioisotope permit
ATP	Sigma	A7699	
Blotting paper; Whatman 3MM CHR Paper	Thermo Fisher	05-714-5	
Cassette for film	Kodak	Kodak Xomatic	
Centrifugation Tube	Thermo Fisher	3138-0050	
Chloroform	Thermo Fisher	C298-4	
DTT	Sigma	D9779-5G	
EDTA	BioShop	EDT002	
EGTA	Sigma	E4378	
Gel Dryer	BioRad	Model 583	
Gel Drying Kit	Sigma or BioRad	Z377570-1PAK or OW-GDF-10	Various options are commercially available through many companies, these are just as few examples.
Glycerol	Caledon Laboratory Chemicals	5350-1-40	
HEPES	Sigma	H3375	
High Speed Centrifuge	Beckman Coulter	Avanti J-25 Centrifuge	
Homogenizer	IKA	T25 Digital Ultra Turrex	
Isoamylalcohol, or 3-methylbutanol	Sigma	I9392	
KAc	BioShop	POA301.500	
KCl	Sigma	P3911	
M7G	New England Biolab	S1404S	Dilute with 1000ul 20mM HEPES to make 1mM stock
MgCl	BioShop	MAG510	
MgSO ₄	Thermo Fisher	M65-500	
MOPS	BioShop	MOP001	
NaCl	BioShop	SOD001	
NTP	Thermo Fisher	R0191	

OCT Plasmid	-	-	Donated from Dr. G. C. Shore, McGill University, Montreal, Canada
pGEM4Z/hTom40 Plasmid	-	-	Donated from Dr. M. T. Ryan, La Trobe University, Melbourne, Australia
pGMDH Plasmid	-	-	Donated from Dr. A. Strauss, Washington University School of Medicine
Phenol	Sigma	P4557	
Phenol:Chloroform:Isoamylalcohol	Sigma	P3803	Can also be made with the ratio provided
Phosphorus Film	Fujifilm	BAS-IP MS 2025	
Rabbit reticulocyte lysate	Promega	L4960	Avoid freeze-thaw; aliquot lysate upon arrival; amino acids are provided in the kit as well
RNAsin	Promega	N2311	
Rotor for High Speed Centrifuge	Beckman Coulter	JA-25.50	
SDS	BioShop	SDS001.500	Caution: harmful if ingested or inhaled, wear a mask.
Sodium acetate	Bioshop	SAA 304	
Sodium Carbonate	VWR	BDH9284	
Sodium salicylate	Millipore Sigma	106601	
Sorbitol	Sigma	S6021	
SP6 RNA Polymerase	Promega	P1085	
Spectrophotometer	Thermo Fisher	Nanodrop 2000	
Spermidine	Sigma	S-2626	
Sucrose	BioShop	SUC507	
T7 RNA Polymerase	Promega	P2075	
Tabletop Centrifuge	Thermo Fisher	AccuSpin Micro 17	
Trichloroacetic acid	Thermo Fisher	A322-500	
Tris	BioShop	TRS001	
β -mercaptoethanol	Sigma	M6250-100ML	