

Materials List for:

Measurement of Mitochondrial Oxygen Consumption in Permeabilized Fibers of *Drosophila* Using Minimal Amounts of Tissue

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Materials

Name	Company	Catalog Number	Comments
High-resolution respirometer Oxygraph O2K	Oroboros Instruments, Innsbruck, Austria	10022-02	Startup O2K respirometer kit
O2K-Titration Set	Oroboros Instruments, Innsbruck, Austria	20820-03	Hamilton syringes with different volumes
Datlab software	Oroboros Instruments, Innsbruck, Austria	20700	Software for data acquisition and analysis
Fine-tipped antimagnetic forceps	VWR	82027-400	
Secura225D-1S-DQE	Sartorius AG, Goettingen, Germany		Semi-micro balance (distributed by several companies)
<i>Drosophila melanogaster</i> wild-type w ¹¹¹⁸	Bloomington Drosophila stock Center, IN, USA		Storage Condition: 24 °C
Ethylene glycol-bis(2-aminoethylether)-N,N,N',N'-tetraacetic acid	Sigma-Aldrich	E4378	EGTA Storage Condition: RT
KOH	Sigma-Aldrich	P1767	CAUTION: corrosive to metals, acute toxicity, skin corrosion, serious eye damage, acute aquatic toxicity. Storage Condition: RT
CaCO ₃	Sigma-Aldrich	C4830	Storage Condition: RT
Na ₂ ATP	Sigma-Aldrich	A2383	Storage Condition: -20 °C
MgCl ₂ ·6H ₂ O	Sigma-Aldrich	M9272	Storage Condition: RT
Taurine	Sigma-Aldrich	T0625	Storage Condition: RT
Na ₂ Phosphocreatine	Sigma-Aldrich	P7936	Storage Condition: -20 °C
Imidazole	Sigma-Aldrich	I5513	Storage Condition: RT
Dithiothreitol	Sigma-Aldrich	D0632	Storage Condition: 2-8 °C
MES hydrate	Sigma-Aldrich	M8250	Storage Condition: RT
Saponin from quillaja bark	Sigma-Aldrich	S7900	Saponin Storage Condition: RT Solution Preparation: 5 mg in 1 mL of preservation solution. Prepare fresh daily.
KCl	Sigma-Aldrich	P9541	Storage Condition: RT
KH ₂ PO ₄	Sigma-Aldrich	P9791	Storage Condition: RT
HEPES	Sigma-Aldrich	H3375	Storage Condition: RT

BSA	Sigma-Aldrich	05470	Storage Condition: 2-8 °C
Na ₂ S ₂ O ₄	Sigma-Aldrich	157953	Sodium dithionite. CAUTION: self-heating substances and mixtures, acute toxicity, acute aquatic toxicity, chronic aquatic toxicity. Storage Condition: RT
Sodium pyruvate	Sigma-Aldrich	P2256	Pyruvate Storage Condition: 2-8 °C Solution Preparation: In MilliQ water. Prepare fresh daily.
L-(-)-Malic acid	Sigma-Aldrich	M1000	Malate Storage Condition: RT Solution Preparation: In MilliQ water. Neutralize with KOH and store at -20 °C.
Adenosine 5'-diphosphate monopotassium salt hydrate	Sigma-Aldrich	A5285	ADP Storage Condition: -20 °C Solution Preparation: In MilliQ water. Neutralize with KOH and store at -80 °C.
Cytochrome c from equine heart	Sigma-Aldrich	C7752	Cytochrome c Storage Condition: -20 °C Solution Preparation: In MilliQ water. Store at -20 °C.
L-Proline	Sigma-Aldrich	P0380	Proline Storage Condition: RT Solution Preparation: In MilliQ water. Store at -20 °C.
Sodium succinate dibasic hexahydrate	Sigma-Aldrich	S2378	Succinate Storage Condition: RT Solution Preparation: In MilliQ water. Neutralize with HCl and store at -20 °C.
sn-Glycerol 3-phosphate bis(cyclohexylammonium) salt	Sigma-Aldrich	G7886	Glycerol-3-phosphate Storage Condition: -20 °C Solution Preparation: In MilliQ water. Neutralize with HCl and store at -80 °C.
Carbonyl cyanide 4-(trifluoromethoxy)phenylhydrazone	Sigma-Aldrich	C2920	FCCP. CAUTION: acute toxicity, skin sensitisation, chronic aquatic toxicity. Storage Condition: RT Solution Preparation: In absolute ethanol. Store in glass vials at -20 °C.
Rotenone	Sigma-Aldrich	R8875	CAUTION: acute toxicity, skin irritation, eye irritation, specific target organ toxicity (respiratory system), acute aquatic toxicity, chronic aquatic toxicity. Solution Preparation: In absolute ethanol. Store in dark vials at -20 °C.
Malonic acid	Sigma-Aldrich	M1296	Malonate. CAUTION: acute toxicity, serious eye damage. Storage Condition: RT Solution Preparation: In MilliQ water. Neutralize with KOH. Prepare fresh daily.
Antimycin A from <i>Streptomyces</i> sp.	Sigma-Aldrich	A8674	Antimycin A. CAUTION: acute toxicity, acute aquatic toxicity, chronic aquatic toxicity. Storage Condition: -20 °C

			Solution Preparation: In absolute ethanol. Store at -20 °C.
<i>N,N,N',N'</i> -Tetramethyl- <i>p</i> -phenylenediamine	Sigma-Aldrich	T7394	TMPD Storage Condition: RT Solution Preparation: In MilliQ water. Store in dark vials at -20 °C.
(+)-Sodium L-ascorbate	Sigma-Aldrich	A4034	Ascorbate Storage Condition: RT Solution Preparation: In MilliQ water. Store in dark vials at -20 °C.
NaN ₃	Sigma-Aldrich	S2002	Sodium azide. CAUTION: acute toxicity (oral and dermal), specific target organ toxicity (brain), aquatic toxicity, chronic aquatic toxicity. Solution Preparation: In MilliQ water. Store at -20 °C.