

Materials List for:

Using an Extracellular Flux Analyzer to Measure Changes in Glycolysis and Oxidative Phosphorylation during Mouse Sperm Capacitation

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Materials

Name	Company	Catalog Number	Comments
Reagents			
2-Deoxy-D-glucose	Sigma-Aldrich	D8375	2-DG
3-Isobutyl-1-methylxanthine	Sigma-Aldrich	I7018	IBMX; prepare a 500 mM stock solution in DMSO (111.1 mg/ml) and store in small aliquots
Antimycin A	Sigma-Aldrich	A8674	AntA; prepare a 5 mM stock solution in DMSO (2.7 mg/ml) and store in small aliquots
Bovine serum albumin	Sigma-Aldrich	A1470	BSA
Calcium chloride	Sigma-Aldrich	C1016	CaCl ₂
Concanavalin A, Lectin from <i>Arachis hypogaea</i> (peanut)	Sigma-Aldrich	L7381	ConA
Glucose	Sigma-Aldrich	G7528	
Hepes	Sigma-Aldrich	H0887	
Isothesia	Henry Schein Animal Health	1169567761	Isoflurane
Magnesium sulfate	Sigma-Aldrich	M2643	MgSO ₄
N ₆ ,2'-O-Dibutyryladenine 3',5'-cyclic monophosphate sodium salt	Sigma-Aldrich	D0627	db-cAMP
Potassium chloride	Sigma-Aldrich	P9333	KCl
Potassium dihydrogen phosphate	Sigma-Aldrich	P5655	KH ₂ PO ₄
Rotenone	Cayman Chemical Company	13995	Rot; prepare a 5 mM stock solution in DMSO (2mg/ml) and store in small aliquots
Sodium bicarbonate	Sigma-Aldrich	S5761	NaHCO ₃ -
Sodium chloride	Sigma-Aldrich	S9888	NaCl
Equipment and materials			
12 channel pipette 10-100 µL	eppendorf	ES-12-100	
12 channel pipette 50-300 µL	vwr	613-5257	
37 °C, non-CO ₂ incubator	vwr	1545	
5 mL centrifuge tubes	eppendorf	30119380	
50 mL conical centrifuge tubes	vwr	76211-286	
Centrifuge with plate adapter	Thermo Scientific	IEC FL40R	
Dissection kit	World Precision Instruments	MOUSEKIT	
Inverted phase contrast microscope with 40X objective	Nikon		
OctaPool Solution Reservoirs, 25 ml, divided	Thomas Scientific	1159X93	

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Seahorse XFe96 Analyzer	Agilent		
Seahorse XFe96 FluxPak	Agilent	102416-100	Also sold as XFe96 FluxPak mini (102601-100) with 6 instead of 18 cartridges.