

Materials List for

Determination of Mitochondrial Respiration and Glycolysis in *Ex Vivo* Retinal Tissue Samples

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jove.com/video/62914

Materials

Name	Company	Catalog Number	Comments
1X PBS	Thermo Fisher	14190-144	
2-Deoxy glucose (2-DG), 500 mM stock solution	Sigma	D6134	Dissolve in Seahorse XF DMEM medium, prepare ahead of time
30-gauge needle	BD Precision Glide	305106	
Antimycin A, 10 mM stock solution	Sigma	A8674	Dissolve in DMSO, prepare ahead of time
Bam15, 10 mM stock solution	TimTec	ST056388	Dissolve in DMSO, prepare ahead of time
Biopsy puncher, 1 mm	Integra Miltex	33-31AA	
Cell-Tak	Corning Life Sciences	CB40240	
CO2 asphyxiation chamber			
Dissection forceps-Dumont #5	Fine Science Tools	11251-10	Stright tip
Dissection forceps-Dumont #7	Fine Science Tools	11274-20	Curved tip
Dissection microscope			
DMSO	Sigma	D2438	
Graefe forceps	Fine Science Tools	11051-10	Curved, Serrated tip
Microscissors	Fine Science Tools	15004-08	Curved tip
NaOH solution, 1 M	Sigma-Aldrich	S8263	Aqueous solution, prepare ahead of time
Rotenone, 10 mM stock solution	Sigma	R8875	Dissolve in DMSO, prepare ahead of time
Seahorse calibration medium	Agilent	100840-000	
Seahorse XF 1.0 M glucose	Agilent	103577-100	
Seahorse XF 100 mM pyruvate	Agilent	103578-100	
Seahorse XF 200 mM glutamine	Agilent	103579-100	
Seahorse XF DMEM medium	Agilent	103575-100	pH 7.4, with 5 mM HEPES
Seahorse XFe24 Islet Capture FluxPak	Agilent	103518-100	Containing Sensor Cartridge and Islet Capture microplate
Seahorse XFe24, Extra Cellular Flux Analyzer	Agilent		

Sodium bicarbonate solution, 0.1 M	Sigma-Aldrich	S5761	Aqueous solution, prepare ahead of time
Superfine eyelash brush	Ted Pella	113	