

Materials List for:

# Measurement of Energy Metabolism in Explanted Retinal Tissue Using Extracellular Flux Analysis

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## Materials

Name	Company	Catalog Number	Comments
Seahorse XF24 Extracellular Flux Analyzer	Agilent, Santa Clara, CA		
Seahorse XF24 Islet Capture FluxPak (includes: Islet Capture Microplate, Sensor Cartridge and Calibrant Solution)	Agilent, Santa Clara, CA	101174-100	Includes islet capture microplate, sensor cartridge and calibrant solution
RPMI 1640 Media (Powdered medium)	Millipore-Sigma	R1383	RPMI 1640 Media with L-Glutamine and without glucose or sodium bicarbonate
D-Glucose	Millipore-Sigma	G8270	1M D-Glucose filtered, for media preparation
Sodium pyruvate	Corning	25000CI	100 mM sodium pyruvate
Antimycin-A	Millipore-Sigma	A8674	Mitochondrial stress protocol component
FCCP	Millipore-Sigma	C2920	Mitochondrial stress protocol component
Rotenone	Millipore-Sigma	R8875	Mitochondrial stress protocol component
2-deoxyglucose	Millipore-Sigma	D6134	Glycolysis protocol component
1 mm skin biopsy punches with plunger	Integra-Miltex	33-31AA-P/25	Explanting retinal tissue tool
Dumont Mini-Forceps Straight	Fine Science Tools	11200-10	Explanting retinal tissue tool
Dumont Medical #5/45 Forceps-Angled 45 degrees	Fine Science Tools	11253-25	Explanting retinal tissue tool
Dumont #7 Forceps - Curved	Fine Science Tools	11271-30	Explanting retinal tissue tool
Quant-iT Picogreen dsDNA Assay Kit	Fisher Scientific	P7589	Loading normalization assay
Trizma base (Tris base)	Millipore-Sigma	T6066	Component of lysis buffer
Triton X-100 (polyethylene glycol tert-octylphenyl ether)	Millipore-Sigma	X100	Component of lysis buffer
0.5M EDTA pH 8.0	Ambion	AM9262	Component of lysis buffer
C57BL/6J mice	Jackson Laboratories	Strain 000664	Animals
Gnat1 <sup>-/-</sup> and background-matched Gnat1 <sup>+/+</sup>	Vladimir Kefalov, PhD; Washington University School of Medicine	Animals	