

Materials List for:

Assessment of Kidney Function in Mouse Models of Glomerular Disease

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Materials

Name	Company	Catalog Number	Comments
Metabolic Cages	Harvard Apparatus	52-6731	
Tris buffered saline (10x)	Sigma-Aldrich	T5912-1L	
Bovine Serum Albumin	Sigma-Aldrich	A2058	
Mouse Albumin ELISA Quantitation Set	Bethyl Laboratories	E90-134	
TMB ELISA Substrate solution	ThermoFisher Scientific	34028	
Sulphuric acid	Sigma-Aldrich	339741	
SPECTRstar nano	BMG Labtech	SPECTRstar nano or equivalent	
RNAlater stabilisation solution	ThermoFisher Scientific	AM7020	
4-15% precast protein gel	BIORAD	4568084	
4x Laemmli Sample buffer	BIORAD	161-0747	
Mini Trans-Blot cell	BIORAD	1703930	
10x Tris running buffer	BIORAD	1610732	
Coomassie Brilliant Blue Dye	ThermoFisher Scientific	20278	
Creatinine Companion	Exocell	1012 Strip Plate	
Glutaraldehyde Solution	Sigma-Aldrich	G5882	
Sodium Cacodylate	Sigma-Aldrich	C0250	
10x Phosphate Buffered Saline	ThermoFisher Scientific	AM9625	
Sodium Chloride	Sigma-Aldrich	S7653	
Sodium Acetate	Sigma-Aldrich	S2889	
Sodium Phosphate	Sigma-Aldrich	342483	
Sodium Bicarbonate	Sigma-Aldrich	S5761	
Magnesium Sulfate	Sigma-Aldrich	M2643	
Calcium Chloride	Sigma-Aldrich	C5670	
D(+)-Glucose	Sigma-Aldrich	G8270	
EDTA Blood Collection tubes	BD	367835	
23-25G Needle	BD	PMC0735	
EDTA	Sigma-Aldrich	E9884	
10 ml Glass Vial	Thomas Scientific	0914X10	
Falcon 10 ml Polypropylene Tubes	ThermoFisher Scientific	10110101	
0.5 ml Tubes	ThermoFisher Scientific	10681894	
Disposable Tissue Molds	ThermoFisher Scientific	22-363-553	
Mouse Surgical Dissection Kit	ThermoFisher Scientific	13-005-204	
Optimal Cutting Medium	ThermoFisher Scientific	23-730-571	

4% Paraformaldehyde	ThermoFisher Scientific	AAJ19943K2	
Glass Capillary Tubes	Harvard Apparatus	EC1 64-0770	
Glomerular Permeability Rig	Built at the Univeristy of Bristol - not comercially available	Citation of LpA rig: Salmon et al. 2006; J. Physiol	
Stainless Steel Sieves	Cole-Parmer	WZ-59984	
Periodic Acid-Schiff (PAS) Staining System	Sigma-Aldrich	395B-1KT	
Hematoxylin	Sigma-Aldrich	H3136	
Xylene	MerckMillipore	108298	
Poly-Prep Slides	Sigma-Aldrich	P0425-72EA	
Mounting Medium	ThermoFisher Scientific	8030	
Osmium tetroxide solution	Sigma-Aldrich	75632	
Aradite Resin	Agar Scientific	CY212	
Uranyl Acetate	Agar Scientific	AGR1260A	
Lead Citrate	Agar Scientific	AGR1210	
Cryostat	ThermoFisher Scientific	e.g. 957000H	
Hydrophobic Pen	Abcam	ab2601	
Nephrin (1243-1256) Antibody	Acris	BP5030	
Anti-Podocin	Sigma-Aldrich	P0372-200UL	
Anti-CD31	BD Biosciences	550274	
Alexa Fluor Secondary Antibody	ThermoFisher Scientific	A32732	
Vectashield Mounting Medium with DAPI	Vector Labs	H-1200	
NP40 Cell Lysis Buffer	ThermoFisher Scientific	FNN0021	
Halt Protease and Phosphatase Inhibitor Cocktail	ThermoFisher Scientific	78437X4	
10x Transfer Buffer	BIORAD	1610734	
PVDF Membrane	ThermoFisher Scientific	LC2002	
HRP-Conjugated Secondary Antibodies	Abcam	ab6721	
ECF Substrate for Western Blotting	Fisher	10713387	
TRIzol	ThermoFisher Scientific	15596018	
Dnase I	New England Biolabs	M0303S	
M-MLV Reverse Transcriptase	New England Biolabs	M053S	
Oligo dT	ThermoFisher Scientific	18418012	
Random Primers	ThermoFisher Scientific	48190011	
dNTP	ThermoFisher Scientific	18427088	
Ribonuclease Inhibitor	ThermoFisher Scientific	10777019	
DEPC Water	ThermoFisher Scientific	AM9915G	
Fluorescent Light Microscope	Leica Microsystems		
Image J Analysis Software	Image J		
PCR Thermocycler	ThermoFisher Scientific		
TEM Microscope	Britannica		