

Materials List for:

Optimized Protocol for the Extraction of Proteins from the Human Mitral Valve

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Materials

Name	Company	Catalog Number	Comments
Saline solution			0.9 % NaCl
Eurocollins A	SALF	30874046	Balanced organ's transport medium. Combine 400 mL of Eurocollins A with 100 mL Eurocollins B to obtain balanced medium Eurocollins
Eurocollins B	SALF	30874022	Balanced organ's transport medium. Combine 400 mL of Eurocollins A with 100 mL Eurocollins B to obtain balanced medium Eurocollins
Wisconsin	Bridge life	RM/N 4081	Balanced organ's transport medium
Biohazard vertical flow air	Burdinola		Class A GMP classification
Dewar Flask	Thermo Scientific	Nalgene 4150-1000	
Cryogrinder system	OPS diagnostics	CG 08-01	Grinder system containing mortars, pestles and screwdriver
Stainless steel forceps			
Stainless steel spatula			
Disposable sterile scalpel	Medisafe	MS-10	
Stainless steel scissors			Autoclavable
Stainless steel picks			Autoclavable
Disposable sterile drape	Mon&Tex	3.307.08	
Sterilizing solution with isopropyl alcohol			70% isopropyl alcohol
Sterilizing solution with hydrogen peroxide			6% hydrogen peroxide
Micropipette, 1 mL, with tips			
15 mL centrifuge tubes	VWR international	9278	
1.7 mL centrifuge tubes	VWR international	PIER90410	
Urea buffer			8 M urea, 2 M thiourea, 4 % w/v CHAPS, 20 mM Trizma, 55 mM Dithiothreitol
Urea	Sigma aldrich	U6504-1KG	To be used for Urea buffer
Thiourea	Sigma aldrich	T8656	To be used for Urea buffer
CHAPS	Sigma aldrich	C3023-5GR	To be used for Urea buffer
Dithiothreitol	Sigma aldrich	D0632-5G	To be used for Urea buffer

Syringe 50 mL	PIC		To be used to filter Urea buffer
0.22 µm filter	Millipore	SLGP033RB	To be used to filter Urea buffer
PFTE Pestle, 2 mL	Kartell	6302	Part of Potter-Elvehjem homogenizer
Borosilicate glass mortar	Kartell	6102	Part of Potter-Elvehjem homogenizer
Stirrer	VELP scientifica	Stirrer DLH	To be used for homogenization by Potter-Elvehjem
Bradford Protein assay	Bio-Rad laboratories	5000006	
Tube rotator	Pbi International	F205	
Liquid nitrogen			
Aluminum foil			
Ice			
Polystyrene box			
Dry ice			
Centrifuge			For centrifugation of 1.7 mL centrifuge tubes at 13,000 x g
Freezer -80°C			
Precision balance			
Autoclave			For sterilization
Cryogenic gloves for liquid nitrogen			
Gloves			
Professional forced ventilation and natural air convection oven			For sterilization
Protease inhibitor cocktail	Sigma aldrich	P8340-5ML	100X solution
ProteoExtract Protein Precipitation Kit	Calbiochem	539180	
RapiGest	Waters	186001861	
Cytoscape	www.cytoscape.org	version 2.7	Software platform for Gene Ontology analysis
BiNGO	http://apps.cytoscape.org/apps/bingo	version 3.0.3	Plugin for Gene ontology analysis
AlphaB Crystallin/CRYAB Antibody	Novus Biologicals	NBP1-97494	Mouse monoclonal antibody against CryAB
Septin-11 Antibody	Novus Biologicals	NBP1-83824	Rabbit polyclonal antibody against septin-11
FHL1 Antibody	Novus Biologicals	NBP-188745	Rabbit polyclonal antibody against FHL-1
Dermatopontin Antibody	Novus Biologicals	NB110-68135	Rabbit polyclonal antibody against dermatopontin
Goat Anti mouse IgG HRP	Sigma aldrich	A4416-0.5ML	Secondary antibody for immunoblotting
Goat Anti rabbit IgG HRP	Bio-Rad laboratories	170-5046	Secondary antibody for immunoblotting