

Materials List for:

Comparable Decellularization of Fetal and Adult Cardiac Tissue Explants As 3D-like Platforms for *in Vitro* Studies

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Materials

Name	Company	Catalog Number	Comments
Equipment			
Incubated Benchtop Shaker	Orbital Shakers	IKA:3510001	Recommended
Fluorimeter	-	-	Equipment available
Digital weight scale	-	-	Equipment available
Inverted Microscope	-	-	Equipment available
Cell culture incubator	-	-	Equipment available
Fridge (4°C)	-	-	Equipment available
Deep freezer (-80°C)	-	-	Equipment available
Microtome	-	-	Equipment available
Cirurgical Instruments			
Vannas Spring Scissors - 2.5mm Cutting Edge	Fine Science Tools	5000-08	Recommended
Dumont 5 Fine Forceps - Biologie/Inox	Fine Science Tools	11254-20	Recommended
Dumont 7 forceps	Fine Science Tools	11272-30	Recommended
Dissecting Scissors, straight	-	-	Tool available
Forceps, serrated, curved	-	-	Tool available
Materials			
24 well plates, individually wrapped	VWR	29442-044	-
96 well plates, individually wrapped	VWR	71000-078	-
Steriflip-GV, 0.22µm, PVDF, Radio-Sterilized	Millipore	SE1M179M6	-
Eppendorff	-	-	Material available
15 mL Falcon tubes	Fisher Scientific	430791	-
50 mL Falcon tubes	Fisher Scientific	430829	-
Four-Compartment Biopsy Processing/Embedding Cassettes with Lid	Electron Microscopy Science	70075-B	-
Fisherbrand Superfrost Plus Microscope Slides	Thermo Fisher Scientific	22-037-246	-
Tissue cryopreservation			
Shandon Cryomatrix embedding resin	Thermo Scientific	6769006	-

2-METHYLBUTANE ANHYDROUS 99+% (isopentane)	Sigma-Aldrich	277258-1L	-
Dry ice	-	-	-
Decellularization			
NaCl	BDH Prolabo	27810.364	-
Na ₂ HPO ₄	Sigma-Aldrich	S-31264	-
KH ₂ PO ₄	Sigma-Aldrich	P5379-100g	-
KCl	Sigma-Aldrich	P8041-1KG	-
TrisBASE	Sigma-Aldrich	T6066-500G	-
Sodium dodecyl sulfate	Sigma-Aldrich	L-4390	-
MgCl ₂	MERCK	1.05833.1000	-
DNAse I	AplliChem	A3778,0050	-
Gentamicin	Gibco	15710-049	-
Fungizone	Gibco BRL	15290-026	-
Deionized water (DI water)	-	-	-
Histology			
10 % formalin neutral buffer	Prolabo	361387P	-
Eosin Y AQUEOUS	Surgipath	01592E	Can be replaced by alcoholic eosin
Richard-Allan Scientific HistoGel Specimen Processing Gel	Thermo Fisher Scientific	HG-4000-012	-
Ethanol ethilic alcohol 99,5% anydrous	Aga	4,006,02,02,00	-
Deionized water (DI water)	-	-	-
Clear Rite 3	Richard-Allan Scientific	6915	-
Shandon Histoplast	Thermo Fisher Scientific	RAS.6774006	-
Kits			
PureLink Genomic DNA Mini Kit	Thermo Fisher Scientific	K182001	-
Quant-iT PicoGreen dsDNA kit	Invitrogen	P11496	-
Cell culture			
DPBS	VWR	45000-434	-
Penicillin-Streptomycin Solution 100X	Labclinics	L0022-100	-
Fungizone	Gibco BRL	15290-026	-
Cell culture media of the cell of interest	-	-	-