

Materials List for:

Fabrication of Decellularized Cartilage-derived Matrix Scaffolds

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Materials

Name	Company	Catalog Number	Comments
Cadaveric joint			This can be obtained as rest material from the local butcher or veterinary center.
Sterile phosphate-buffered saline (PBS)			
Penicillin-Streptomycin	Gibco	15140	
Amphotericin B	Thermo Fischer Scientific	15290026	
Liquid nitrogen			
Trypsin-EDTA (0.25%), phenol red	Thermo Fischer Scientific	25200072	
Tris-HCl pH 7.5			
Deoxyribonuclease I from bovine pancreas	Sigma-Aldrich	DN25	
Ribonuclease A from bovine pancreas	Sigma-Aldrich	R6513	
Triton X-100 (octoxynol-1)	Sigma-Aldrich	X100	
Papain	Sigma-Aldrich	P3125	
Trisodium citrate dihydrate	Sigma-Aldrich	S4641	
Alginate	Sigma-Aldrich	180947	
Formalin			
CaCl ₂			
Ethanol			
Xylene			
Paraffin			
Ethylene oxide sterilization	Synergy Health, Venlo, the Netherlands		
Multipotent Stromal cells/chondrocytes from equine donors			MSCs and chondrocytes can be isolated from donor joints that are rest material, coming from the local butcher or veterinary center.
MEM alpha	Thermo Fischer Scientific	22561	
L-ascorbic acid 2-phosphate	Sigma-Aldrich	A8960	
DMEM	Thermo Fischer Scientific	41965	
Heat inactivated bovine serum albumin	Sigma-Aldrich	10735086001	
Fibroblast growth factor-2 (FGF-2)	R & D Systems	233-FB	
DNA quantification kit (Quant-iT PicoGreen dsDNA Reagent)	Thermo Fischer Scientific	P7581	

1,9-Dimethyl-Methylene Blue zinc chloride double salt	Sigma-Aldrich	341088	
Freeze-dryer	SALMENKIPP	ALPHA 1-2 LD plus	
Analytical mill	IKA	A 11 basic	
mortar/pestle	Haldenwanger 55/0A		
Roller plate	CAT	RM5	
Centrifuge (for 50 mL tubes)	Eppendorf	5810R	
Capsule (cylindric mold)	TAAB	8 mm flat	
Superlite S UV	Lumatec	2001AV	
Incubator			
Microtome			
Sieve (mesh size 0.71 mm)	VWR	34111229	
Scalpel			
Scalpel holder			
Small laddle			