

Materials List for:

Minced Tissue in Compressed Collagen: A Cell-containing Biotransplant for Single-staged Reconstructive Repair

Clara I. Chamorro¹, Said Zeiai^{1,2}, Gisela Reinfeldt Engberg^{1,2}, Magdalena Fossum^{1,2}

¹Department of Women's and Children's Health, Center for Molecular Medicine, Karolinska Institutet

²Department of Pediatric Surgery, Urology Section, Astrid Lindgren Children's Hospital, Karolinska University Hospital

Correspondence to: Magdalena Fossum at magdalena.fossum@ki.se

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Materials

Name	Company	Catalog Number	Comments
Silicone catheter 10-French			Preparing the animal for surgery, Section 1
DMEM 10x	Gibco	31885-023	Plastic compression section 4
24 well plates	Falcon	08-772-1	Plastic compression section 4
3',3',5-Triiodothyronine	Sigma-Aldrich	IRMM469	<i>In vitro</i> culture; Section 5
4% PFA	Labmed Solutions	200-001-8	Immunocytochemistry; Section 6
70% ethanol	Histolab		Immunocytochemistry; Section 6
ABC Elite kit: Biotin-Streptavidin detection kit	Vector	PK6102	Immunocytochemistry; Section 6
Absolute ethanol	Histolab	1399.01	Immunocytochemistry; Section 6
Adenine	Sigma-Aldrich	A8626	<i>In vitro</i> culture; Section 5
Atropine 25 µg/kg	Temgesic, RB Pharmaceuticals, Great Britain		Preparing the animal for surgery, Section 1
Azaperone 2 mg/kg	Stresnil, Janssen-Cilag, Pharma, Austria		Preparing the animal for surgery, Section 1
Biosafety Level 2 hood			Plastic compression; Section 4
Blocking solution: Normal serum from the same species as the secondary secondary antibody was generated in.	Vector	The blocking solution depends of the origin of first antibody	Immunocytochemistry; Section 6
Buprenorphine 45 µg/kg	Atropin, Mylan Inc, Canonsburg, PA		Preparing the animal for surgery, Section 1
Carprofen 3 mg/kg	Rimadyl, Orion Pharma, Sweden		Preparing the animal for surgery, Section 1
Chlorhexidine gluconate	Hibiscrub 40 mg/mL, Regent Medical, England		Preparing the animal for surgery, Section 1
Cholera toxin	Sigma-Aldrich	C8052	<i>In vitro</i> culture; Section 5
Coplin jar: staining jar for boiling	Histolab	6150	Immunocytochemistry; Section 6
Stainless mold (33 mm x 22 mm x 10 mm) custom made			Plastic compression; Section 4
DMEM	Gibco	3188-5023	Plastic compression section 4. Keep on ice when using it in plastic compression
Epidermal growth factor	Sigma-Aldrich	E9644	<i>In vitro</i> culture; Section 5
Ethilon (non-absorbable monofilament for skin sutures)	Ethicon		Surgery, Section 1
Fetal bovine serum (FBS)	Gibco	10437-036	Plastic compression section 4

Forceps (Adison with tooth)			Preparing the animal for surgery, Section 1
Gauze (Gazin Mullkompresse)			Preparing the animal for surgery, Section 1
Ham's F12	Gibco	31765-027	Plastic compression section 4
Hematoxylin	Histolab	1820	Immunocytochemistry; Section 6
Humidity chamber	DALAB		Immunocytochemistry; Section 6
Hydrocortisone	Sigma-Aldrich	H0888	<i>In vitro</i> culture; Section 5
Hydrogen peroxide Solution 30%	Sigma-Aldrich	H1009	Immunocytochemistry; Section 6
Insulin	Sigma-Aldrich	I3536	<i>In vitro</i> culture; Section 5
Isoflurane	Isoflurane, Baxter, Deerfield, IL		Preparing the animal for surgery, Section 1
Lidocaine 5 mg/ml	Xylocaine, AstraZeneca, Sweden		Preparing the animal for surgery, Section 1
Lucose 25 mg/ml	Baxter, Deerfield, IL		Preparing the animal for surgery, Section 1
Marker pen pap pen	Sigma-Aldrich	Z377821-1EA	Immunocytochemistry; Section 6
Medetomidine 25 µg/kg	Domitor, Orion Pharma, Sweden		Preparing the animal for surgery, Section 1
Mincing device	Applied Tissue Technologies LLC		Minced tissue preparation, section 2
Monocryl (absorbable monofilament)	Ethicon		Surgery, Section 1
NaCl	Sigma-Aldrich	S7653	Immunocytochemistry; Section 6
NaOH 1 N	Merck Millipore	106462	Plastic compression section 4 and cell culture
Nylon mesh, 110 µM thick pore size 0.04 sqmm			Plastic compression; Section 4
Oculentum simplex APL: ointment for eye protection	APL	Vnr 336164	Surgery, Section 1
PBS	Gibco	14190-094	Plastic compression section 4
Penicillin-Streptomycin	Gibco	15140-122	Plastic compression section 4
Phenobarbiturate 15 mg/kg	Pentobarbital, APL, Sweden		Preparing the animal for surgery, Section 1
PCL Knitted fabric			Plastic compression; Section 4
Rat-tail collagen	First LINK, Ltd, UK	60-30-810	Plastic compression section 4, keep on ice
Scalpel blade - 15			Preparing the animal for surgery, Section 1
Shaving shears			Preparing the animal for surgery, Section 1
Stainless stell mesh, 400 µM thick pore size			Plastic compression; Section 4
Steril gloves			Preparing the animal for surgery, Section 1
Sterile gowns			Preparing the animal for surgery, Section 1
Sterile drapes			
Sterilium	Bode Chemie HAMBURG		Preparing the animal for surgery, Section 1
Suture Thread Ethilon			Preparing the animal for surgery, Section 1

TE-solution (antigen unmasking solution) consist of 10 mM Tris and 1 mM EDTA, pH 9.0			10 mM Tris/1 mM EDTA, adjust pH to 9.0
Tiletamine hydrochloride 2.5 mg/kg			Preparing the animal for surgery, Section 1
Transferrin	Sigma-Aldrich	T8158	<i>In vitro</i> culture; Section 5
Trizma Base, H ₂ NC	Sigma-Aldrich	T6066	Immunocytochemistry; Section 6
Vector VIP kit: Enzyme peroxidase substrate kit	Vector	SK4600	Immunocytochemistry; Section 6
Vicryl (absorbable braided)	Ethicon		Surgery, Section 1
Tris buffer pH 7.6 (washing buffer)			TE solution: Make 10x (0.5 M Tris, 1.5 M NaCl) by mixing: 60.6 g Tris (Trizma Base, H ₂ NC(CH ₂ OH) ₃ , M=121.14 g/mol), add 800 ml distilled water adjust the pH till 7.6, add 87.7 g NaCl and fill to 1,000 ml with distilled water. Dilute to 1x with distilled water.
X-tra solv (solvent)	DALAB	41-5213-810	Immunocytochemistry; Section 6. Use under fume hood
Zolazepam hydrochloride	Zoletil, Virbac, France		Preparing the animal for surgery, Section 1
Depilatory wax strips	Veet		Preparing the animal for surgery, Section 1
Pentobarbital sodium	Lundbeck		Termination, Section 3