

Materials List for:

A Porcine Corneal Endothelial Organ Culture Model Using Split Corneal Buttons

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Materials

Name	Company	Catalog Number	Comments
Subject			
Pig eyes	local abbatoir		
Substances			
Alizarin red S	Sigma-Aldrich, USA		
Culture Medium 1, #F9016	Biochrom GmbH, Germany		
Dulbecco's PBS (1x)	Gibco, USA		
Fetal calf serum	Biochrom GmbH, Germany		
Hydrochloric acid (HCl) solution	own production		
Hypotonic balanced salt solution	own production		per 1 L of H ₂ O: NaCl 4.9 g; KCl 0.75 g; CaCl x H ₂ O 0.49 g; MgCl ₂ x H ₂ O 0.3 g; Sodium Acetate x 3 H ₂ O 3.9 g; Sodium Citrate x 2 H ₂ O 1.7 g
Povidon iodine 7.5%, Braunol	B. Braun Melsungen AG, Germany		
Sodium chloride (NaCl) 0.9%	B. Braun Melsungen AG, Germany		
Sodium hydroxide (NaOH) solution	own production		
Trypan blue 0.4%	Sigma-Aldrich, USA		
Materials & Instruments			
Accu-jet pro	Brand GmbH, Germany		
Beaker Glass 50 mL	Schott AG, Germany		
Blunt cannula incl. Filter (5 µm) 18G	Becton Dickinson, USA		
Cell culture plate (12 well)	Corning Inc., USA		
Colibri forceps	Geuder AG, Germany		
Corneal scissors	Geuder AG, Germany		
Eppendorf pipette	Eppendorf AG, Germany		
Eye Bulb Holder	L. Klein, Germany		
Eye scissors	Geuder AG, Germany		
Folded Filter ø 185 mm	Whatman, USA		
Hockey knife	Geuder AG, Germany		
Laboratory Glass Bottle with cap 100 mL	Schott AG, Germany		
Magnetic stir bar	Carl Roth GmbH & Co. KG, Germany		
MilllexGV Filter (5 µm)	Merck Millipore Ltd., USA		

Needler holder	Geuder AG, Germany		
Petri dishes	VWR International, USA		
Pipette tips	Sarstedt AG & Co., Germany		
Scalpel (single use), triangular blade	Aesculap AG & Co. KG, Germany		
Serological pipette 10 mL	Sarstedt AG & Co., Germany		
Serological pipette 5 mL	Sarstedt AG & Co., Germany		
Sterile cups	Greiner Bio-One, Österreich		
Sterile gloves	Paul Hartmann AG, Germany		
Sterile surgical drape	Paul Hartmann AG, Germany		
Stitch scissors	Geuder AG, Germany		
Suture Ethilon 10-0 Polyamid 6	Ethicon Inc., USA		
Syringe (5 mL)	Becton Dickinson, USA		
trepine ø 7.5 mm	own production		
Tying forceps	Geuder AG, Germany		
Weighing paper	neoLab Migge GmbH, Germany		
Equipment & Software			
Binocular surgical microscope	Carl Zeiss AG, Germany		
Camera mounted on microscope	Olympus, Japan		
CellSens Entry (software)	Olympus, Japan		
Cold-light source	Schott AG, Germany		
Incubator	Heraeus GmbH, Germany		
Inverted phase contrast microscope	Olympus GmbH, Germany		
Magnetic stirrer with heating function	IKA-Werke GmbH & Co. KG, Germany		
pH-meter pHenomenal	VWR International, USA		
Photoshop CS2	Adobe Systems, USA		
Precision scale	Ohaus Europe GmbH, Switzerland		