

Materials List for

Extrahepatic Bile Duct and Gall Bladder Dissection in Nine-Day-Old Mouse Neonates

Hans

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Materials

Name	Company	Catalog Number	Comments
2-Propanol	CHEMSOLUTE	11365000	used as a dehydrating agent
30 G canula	B Braun/Sterican, Melsungen Germany	4656300	canula for hydration of the sample
Air vent	C + P Möbelsysteme GmbH & Co. KG, Breidenbach, Germany	Tec-Ononmic AZ 1200	the use of an air vent helps to avoid inhalation of formalin-containing fixatives
Aqua ad injectabilia Braun	B Braun, Melsungen, Germany	2351744	saline; Container: Mini-Plasco connect, 20 x 10 mL, sterile
Bigger microsurgical Forceps	DIADUST von Aesculap, Trossingen Deutschland	FD253R	straight, 180 mm (7"), platform tip, round handle, width: 0,800 mm, diamond dust coated, non-sterile, reusable optional tool for observation and every step of preparation except very final preparation; Dividing skin of the peritoneum
Camera "SmartCAM 5"	Basler and Vision Engineering, Send, United Kingdom	EVC131A	optional Lynx Exo camera modul: sensortype: CMOS, resolution 2560 x 1920 pixels, sensor size: 1/2"; Used for videoproduction and technical evaluation
Dehydration machine/Citadel 2000 Tissue Processor	Fisher Scientific GmbH, Schwerte, Germany	12612613	used for automatic dehydration, short program (approx. 4.8 h)
Dehydration sponge	Carl Roth, Karlsruhe, Germany	TT56.1	sponge for final dissection step, other sponges/foam pads with a minimum pore size of 60 pores per inch are also suitable, the use of two foam pads per embedding cassette is recommended to cover the sample from below and above to prevent sliding through the perforation of the embedding cassettes
Dulbecco's Phosphat Buffered Saline (PBS)	Gibco	14190-144	Doesn't contain Calcium or Magnesium, 500 mL
Embedding cassettes	Engelbrecht GmbH, Edermünde, Germany	17990	

Eosin	MEDITE Medical GmbH, Burgdorf, Germany	41-6660-00	staining solution, ready to use
Fine Scissors CeramaCut	FST, Heidelberg Germany	14959-09	Tips: Sharp-Sharp, Alloy / Material: Ceramic Coated Stainless Steel, Serrated: Yes; Feature: CeramaCut, Tip Shape: Straight, Cutting Edge: 22 mm, Length: 9 cm; Skin incision, incision of the peritoneal window
Graefe Forceps	FST, Heidelberg Germany	11051-10	Length: 10 cm, Tip Shape: curved, serrated, Tip width: 0.8 mm, Tip Dimensions: 0.8 x 0.7 mm, Alloy / Material: Stainless Steel
Hematoxylin	MEDITE Medical GmbH, Burgdorf, Germany	41-5130-00	staining solution, ready to use
Highresolution microscope	Vision Engineering, Send United Kingdom	EVO503	Capable of enlargement up to 60x magnification, only 6x to 20x magnification were used
Microscope	Olympus Optical CO, Ltd., Hamburg, Germany	BX60F5	
Microscope Cover Glases	Marienfeld, Lauda-Königshofen, Germany	101244	60 mm broad, made of SCHOTT D 263 glass
Microscope Slides	R. Langenbrinck GmbH, Emmendingen, Germany	03-0060	
Microtome	Leica, Nußloch, Germany	SM2010R	Tool for sectioning (2 µm-slices)
Omnifix-F 1 mL syringe	B Braun, Melsungen, Germany	9161406V	syringe without canula
Paraffin	Sakura Finetec, Torrance, USA	4511	Tissue-Tek Paraffin Wax Tek III, without DMSO
Paraffin embedding machine	MEDITE Medical GmbH, Burgdorf, Germany	TES 99	The embedding machine used in this study contained the following three individual modules: TES 99.420, TES 99.250, TES 99.600. The sample should be embedded in Paraffin directly after the dehydration, no interim storage in a fridge should be performed due to possible shrinking and moisture in the fridge
Paraformaldehyde (PFA)	Morphisto	1176201000	Prepare 1 mL Aliquots in 2 mL Eppendorf conical Tubes for liver samples and 0.5 mL Aliquots in 1 mL Eppendorf conical Tubes for extrahepatic bile duct samples, 4% in PBS ph 7.4
Small Microsurgical Forceps	EPM (Erich Pfitzer Medizintechnik), Bütthard, Bayern, Germany	(00)165	Round handle, straight, 0.3 mm tip, tool for observation and every step of preparation, especially useful in final preparation
Stainless Steel Ruler	Agntho's AB, Lidingö, Sweden	30085-15	150mm With Metric & Inch Graduations
Surgical Scissors – Sharp-blunt for decapitation	FST, Heidelberg Germany	14001-14	Device for decapitation
Warming cabinet	Haraeus, Hanau, Germany	T 6060	the sliced samples should be kept in the warming cabinet to ensure the attachment of the sample on the microscope slides