

Materials List for:

Generation and Quantitative Characterization of Functional and Polarized Biliary Epithelial Cysts

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Materials

Name	Company	Catalog Number	Comments
10 µl - Pipette Eppendorf Research Plus	Thermo Fisher Scientific	312000020	
100 µl - Pipette Eppendorf Research Plus	Thermo Fisher Scientific	312000046	
1000 µl - Pipette Eppendorf Research Plus	Thermo Fisher Scientific	312000062	
1X PBS	Thermo Fisher Scientific	14190-094	
200 µl - Pipette Eppendorf Research Plus	Thermo Fisher Scientific	312000054	
3,3',5-Triiodo-L-thyronine sodium salt	Sigma-Aldrich	T5516	NRC complete medium final concentration = 3.4 µg/mL
Acetic acid	VWR	20104-298	0.02N final
Aerosol barrier pipettes tips 10 µl (Fisherbrand)	Thermo Fisher Scientific	2707439	
Aerosol barrier pipettes tips 1000 µl (Fisherbrand)	Thermo Fisher Scientific	2707404	
Aerosol barrier pipettes tips 200 µl (Fisherbrand)	Thermo Fisher Scientific	2707430	
Antibiotic Antimycotic Solution (100X)	Sigma-Aldrich	A5955	NRC complete medium final concentration = 1:100 dilution
Bovine pituitary extract	Thermo Fisher Scientific	13028-014	NRC complete medium final concentration = 30 µg/mL
Bovine serum albumin	Sigma-Aldrich	A2153	1:1000 dilution
Chemically Defined Lipid Concentrate (100X)	Thermo Fisher Scientific	11905-031	NRC complete medium final concentration = 1:100 dilution
Collagen high concentration, rat tail	Thermo Fisher Scientific	354249	50 µg/mL final concentration
Dexamethasone	Sigma-Aldrich	D4902	NRC complete medium final concentration = 0.393 µg/mL
DMEM F12	Thermo Fisher Scientific	21331-020	NRC complete medium final concentration = 1X
E-cadherin Rabbit anti-Human, Rat, Polyclonal	Thermo Fisher Scientific	PA5-32178	1:400 dilution
Eclipse TE300 inverted microscope	Nikon		imaging
Ethanolamine	Sigma-Aldrich	E9508	NRC complete medium final concentration = 0.32 mM
Fetal calf serum	Thermo Fisher Scientific	10270-106	NRC complete medium final concentration = 5:100 dilution

Fluoroshield with DAPI (Mounting medium)	Sigma-Aldrich	F6057	
Formaldehyde 16% (W/V)	Thermo Fisher Scientific	28906	4% (W/V)
Goat serum	Thermo Fisher Scientific	16210-064	1:10 dilution
Hamamatsu camera (Digital camera C11440 ORCA - flash 4.OLT)	Hamamatsu		imaging
Hoechst 33258	Sigma-Aldrich	B1155	5 µg/mL final concentration
IgG (H+L) Highly Cross-Adsorbed Goat anti-Rabbit, Alexa Fluor Plus 647	Thermo Fisher Scientific	A32733	1:500 dilution
ImageJ version 2.0.0-rc-69/1.52n			Open source image processing software
Insulin-Transferrin-Selenium (100X)	Thermo Fisher Scientific	51300-044	NRC complete medium final concentration = 1:100 dilution
L-Glutamine (100X)	Thermo Fisher Scientific	25030-024	NRC complete medium final concentration = 1:100 dilution
Matrigel GFR (stock concentration 9.7 mg/mL)	Thermo Fisher Scientific	356231	4:10 dilution
NIS Elements software version 4.50.00	Nikon		image acquisition and display
Non-Essential-Amino-Acids-Solution (100X)	Thermo Fisher Scientific	11140-035	NRC complete medium final concentration = 1:100 dilution
Objective Plan Fluor 10X/0.30 Ph1 DL (∞/1.2 WD 15.2)	Nikon		
Prolong Gold Antifade Reagent	Thermo Fisher Scientific	P36931	
Propidium Iodide (PI)	Sigma-Aldrich	P4170	20 µg/mL final concentration
Rhodamine Phalloidin	Thermo Fisher Scientific	R415	16.2 nM final concentration
Sir-Actin / Verapamil kit	Spirochrome	SC001	10 µM final concentration
Soybean trypsin inhibitor	Thermo Fisher Scientific	17075-029	NRC complete medium final concentration = 50 µg/mL
Sterile cell strainer 40 µm (Fisherbrand)	Thermo Fisher Scientific	22363547	
Sterile pipettes 10 mL (Fisherbrand)	Thermo Fisher Scientific	1367811E	
Sterile pipettes 5 mL (Fisherbrand)	Thermo Fisher Scientific	1367811D	
Sterile tubes 1.5 mL (Fisherbrand)	Thermo Fisher Scientific	11926955	
Sterile tubes 15 mL (Fisherbrand)	Thermo Fisher Scientific	7200886	
Sterile tubes 50 mL (Fisherbrand)	Thermo Fisher Scientific	553913	
Sucrose	Sigma-Aldrich	S0389	5:100 dilution
Tissue culture treated flask 25cm ² (Falcon)	Thermo Fisher Scientific	353108	
Triton X-100	Sigma-Aldrich	T8787	5:1000 dilution
Trypsin-EDTA (0.05%) phenol red	Thermo Fisher Scientific	25300-054	1X
Tween-20	Sigma-Aldrich	P1379	5:10000 dilution
Vitamin (100X)	Thermo Fisher Scientific	11120-037	NRC complete medium final concentration = 1:100 dilution
µ-Slide 8 Well ibiTreat, Ibidi	Clinisciences	80826	