

Materials List for:

Generation of Organoids from Mouse Extrahepatic Bile Ducts

Junya Shiota¹, Nureen H. Mohamad Zaki¹, Juanita L. Merchant^{1,2}, Linda C. Samuelson^{1,2}, Nataliya Razumilava¹

¹Departments of Internal Medicine, The University of Michigan

²Molecular & Integrative Physiology, The University of Michigan

Correspondence to: Nataliya Razumilava at razumila@med.umich.edu

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Materials

Name	Company	Catalog Number	Comments
L-WRN cell culture medium			
Advanced DMEM/F12		Life Technologies	12634-010
Fetal Bovine Serum (FBS)	1%	Life Technologies	10437-028
Penicillin-Streptomycin	100 U/mL	Life Technologies	15140-122
Washing buffer			
Phosphate Buffered Saline (PBS)	50 mL	Life Technologies	10010-023
Penicillin-Streptomycin	125 U/mL	Life Technologies	15140-122
Amphotericin B	6.25 µg/mL	Life Technologies	15290-018
Organoid culture medium			
L-WRN Conditioned medium	1:1	ATCC	CRL-3276
Advanced DMEM/F12	1:1	Life Technologies	12634-010
Penicillin-Streptomycin	100 U/mL	Life Technologies	15140-122
N-Glutamine	10 µl/mL	Life Technologies	35050-061
N-2-hydroxyethylpiperazine-N-2-ethane sulfonic acid, HEPES	10 mM	Life Technologies	15630-080
B27	10 µl/mL	Gibco	17504-044
N2	10 µl/mL	Gibco	17502-048
Organoid seeding medium			
Organoid culture medium			
Epidermal growth factor (EGF)	50 ng/mL	Invitrogen	PMG8041
Fibroblast growth factor-10 (FGF10)	100 ng/mL	PeproTech	100-26
Primary antibodies			
Anti-Cytokeratin 19 (CK19) antibody, Rabbit	1:250	Abcam	ab53119
Sex-Determining Region Y-Box 9 (SOX9) antibody, Rabbit	1:200	Santa Cruz	sc-20095
Pancreatic Duodenal Homeobox 1 (PDX1) antibody, Rabbit	1:2000	DSRB	F109-D12
E-cadherin antibody, Goat	1:500	Santa Cruz	sc-31020
Acetylated α-tubulin antibody, Mouse	1:500	Sigma-Aldrich	T6793
Secondary antibodies			
488 labeled anti-rabbit, Donkey IgG	1:1000	Invitrogen	A-21206
594 labeled anti-goat, Donkey IgG	1:1000	Invitrogen	A-11058

568 labeled anti-mouse, Goat IgG2b	1:500	Invitrogen	A-21144
TopFlash Wnt reporter assay			
TopFlash HEK293 cell line		ATCC	CRL-1573
Luciferase Assay Kit		Biotium	30003-2
0.05% Trypsin-EDTA		Life Technologies	25300054
0.4% Trypan Blue Solution		Life Technologies	15250061
Additional materials and reagents			
Basement matrix, phenol free Matrigel		CORNING	356237
Dissociation buffer, Accutase		Gibco	A1110501
Cell culture freezing medium, Recovery		Life Technologies	12648010
Cell strainer (70 µm, sterilized)		Fisherbrand	22363548
Guanidinium thiocyanate-phenol RNA extraction, TRIzol		Invitrogen	15596026
Specimen processing gel, HistoGel		Thermo Fisher Scientific	HG-4000-012
Universal mycoplasma detection kit		ATCC	30-1012K
1.5 mL microcentrifuge tube		Fisherbrand	05-408-129
24 well plate		USA Scientific	CC7682-7524
50 mL conical centrifuge tube		Fisher scientific	14-432-22
Fluorescence microscope		Nikon	Eclipse E800
Inverted microscope		Biotium	30003-2
Necropsy tray		Fisherbrand	13-814-61