

Materials List for:

Mouse- and Human-derived Primary Gastric Epithelial Monolayer Culture for the Study of Regeneration

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URL: <https://www.jove.com/video/57435>

DOI: [doi:10.3791/57435](https://doi.org/10.3791/57435)

Materials

Name	Company	Catalog Number	Comments
Advanced Dulbecco's modified Eagle/F12 medium (basal media)	Life Technologies	12634-010	
GlutaMAX (L-glutamine)	Life Technologies	25030-081	
Penicillin/Streptomycin	Thermo Scientific	SV30010	
Amphotericin B/Gentamicin	Thermo Scientific	R01510	
Kanamycin	Thermo Fisher	RO1510	
HEPES Buffer	Sigma Aldrich	H0887	
n-Acetylcystine	Sigma Aldrich	A9165	
N2	Life Technologies	17502-048	
B27	Life Technologies	12587-010	
BMP Inhibitor (Noggin)	Pepro Tech	250-38	
Gastrin	Tocris	3006	
EGF	Pepro Tech	315-09	
FGF10	Pepro Tech	100-26	
Nicotinamide	Sigma Aldrich	N0636	
Y-27632 ROCK Inhibitor	Sigma Aldrich	Y0503	
TGF-β Inhibitor	Tocris	2939	
Ca ²⁺ /Mg ²⁺ -free DPBS	Fisher	21-031CV	
Dulbecco's modified Eagle Medium (DMEM)	Life Technologies	12634-010	
Fetal Bovine Serum	FBS		
OPTIMEM	Invitrogen		
0.22μM filter	Fisher	099-720-004	
37 °C Water Bath			
Collagenase Type 1	Worthington	LS004214	
Bovine Serum Albumin	Sigma Aldrich	A9418	
Kimwipes (tissue paper)	Fischer Scientific	06-666C	
125 mL round bottom flask			
1 in (25 mm) stir bar			
Rubber Septa			
Sterile Gauze			
Stir Plate			
Ring Stand			

Ring Stand Clamps			
Sterile petri dish			
18 G needles of 1.5 in length	Thermo Fisher	305196	
20 G spinal needles of 3.5 in length	Thermo Fisher	405182	
12-well cell culture treated plate	Midwest Scientific	92012	
Growth Factor Reduced, Phenol Red-free Matrigel™ (Basement membrane matrix)	Fisher	CB-40230C	
Sterile Razor Blades			
Wide-tip tweezers			
Curved Hemostatic Forceps			
200 µL wide pipette tips	Thermo Fisher	02-707-134	
5 mL cell culture test tubes	Fisher	14-956-3C	
Oxygen Tank with rubber hosing			
1 g D-Sorbitol			
Sucrose	Fisher	SS-500	
Dissecting microscope			
Dissecting Tray			
Rocking Table			
Rat Tail Collagen Type 1	Life Technologies	A10483-01	
Cell culture grade glacial acetic acid	Fisher	A38-212	
Cell culture grade water	Corning	25-055-CV	
2-well chamber slide	Thermo Fisher	155380	
12-well Transwell (polyester membrane inserts)	Corning	3460	
Cell scraper	Corning	353086	
Accutase (cell detachment solution)	Stemcell Technologies	7920	
26 ^{3/8} G syringe	Thermo Fisher	309625	
Razor blade			
L Cells	L cells, a Wnt3a producing cell line, were received as a gift from Dr. Hans Clevers (Hubrecht Institute for Developmental Biology and Stem Cell Research, Netherlands).	N/A	
HEK-293T R-spondin secreting cells	A modified HEK-293T R-spondin secreting cell line was obtained from Dr. Jeff Whitsett (Section of Neonatology, Perinatal and Pulmonary Biology, Cincinnati Children's Hospital Medical Centre and The University of Cincinnati College of Medicine, Cincinnati, USA).	N/A	
HK-ATPase Primary Antibody	Invitrogen	SC-374094	
E-Cadherin	SantaCruz	sc-59778	
UEA1	Sigma Aldrich	L9006	
Hoechst 33342	Thermo Fisher	H3570	

Alexafluor 488 secondary antibody (Donkey anti-mouse 488 secondary antibody)	ThermoFisher Scientific	R37114	
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