

Materials List for

# The 3D Culturing of Organoids from Murine Intestinal Crypts and a Single Stem Cell for Organoid Research

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jove.com/video/65219

## Materials

Name	Company	Catalog Number	Comments
1.5 mL Eppendorf tube	Eppendorf	0030 125.215	
5 mL syringe	TERUMO	SS-05SZ	
15 mL Falcon tube	Iwaki	2325-015	
20 µm cell strainer	Systemex	04-004-2325	
24-well plate	Iwaki	3820-024	
50 mL Falcon tube	Iwaki	2345-050	
60 mm tissue culture dish	FALCON	353002	
70 µm cell strainer	Falcon	352350	
100 mm Petri dish	Iwaki	3020-100	
7-AAD	BD Biosciences	559925	
Advanced DMEM/F12	Gibco	12634-010	
Alexa Fluor 568 Goat Anti-Mouse IgG (H+L)	Invitrogen	A-11004	
Anti-EphB2 APC-conjugated antibody	BD Biosciences	564699	
C57BL6/J mice	Japan SLC, Inc.		
Clean bench	HITACHI	CCV-1306E	
Confocal laser scanning microscope	Olympus	FV3000	
EDTA (0.5 mol/L)	Nacalai Tesque	06894-14	2 mM
FACSMelody	BD Life Sciences-Biosciences	661762	
Fetal bovine serum	Sigma	173012	1% (v/v)
Fiji (software)	<a href="https://fiji.sc/">https://fiji.sc/</a>		
Gentamicin (10 mg/mL)	Nacalai Tesque	16672-04	25 µg/mL
Hammacher laboratory scissor	SANSYO	91-1538	
Incubator	Panasonic	MCO-170-PJ	
Laboratory tweezer	AS-ONE	7-164-04	
L-Glutamine 200 mM	Gibco	25030081	2 mM

Matrigel	BD Biosciences	354230	ECM for 3D organoids
Mouse Anti-Human Lysozyme	LSBio	LS-B8704-100	
Murine EGF (20 µg/mL stock solution)	PeproTech	315-09	20 ng/mL
PBS 1x	Gibco	10010-023	
Penicillin-Streptomycin (10,000 U/mL)	Gibco	15140-122	50 U/mL
Pipetman (10 µL, 20 µL, 200 µL, and 1,000 µL)	GILSON	1-6855-12, -13, -15, and -16	
Recombinant murine Noggin (20 µg/mL stock solution)	R&D Systems	1967-NG-025	100 ng/mL
Recombinant murine R-Spondin 1 (250 µg/mL stock solution)	R&D Systems	3474-RS-050	500 ng/mL
Sorbitol	Nacalai Tesque	32021-95	2% (w/v)
TE2000-S (inverted microscope)	Nikon	24131	
Time-lapse image microscope	Olympus	LCV100	
TrypLE Express 1x	Gibco	12605-010	
ULVAC	ULVAC KIKO Inc.	100073	
Y-27632	Fujifilm	331752-47-7	10 µM