

Materials List for

Adapting Gastrointestinal Organoids for Pathogen Infection and Single Cell Sequencing under Biosafety Level 3 (BSL-3) Conditions

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jove.com/video/62857

Materials

Name	Company	Catalog Number	Comments
Recombinant mouse noggin	Peptotech	Cat#250-38	
[Leu15]-Gastrin I	Sigma-Aldrich	Cat# G9145	
0.05% Trypsin-EDTA	Thermo Fischer Scientific	Cat#25300054	
24-well non-cell culture treated plate	Corning	Cat#3738	
8-well glass bottom chamber slide	iBIDI	Cart#80827	
A83-01	Tocris	Cat#2939	
Advanced DMEM/F12	Thermo Fischer Scientific	Cat# 12634010	
B27	Thermo Fischer Scientific	Cat#17504-044	
Chromium Controller & Next GEM Accessory Kit	10X Genomics	Cat#1000202	Used in the preparation of single cell solution and preparation of Gel beads-in-emulsion (GEM)
Chromium Next GEM Chip G Single Cell Kit	10X Genomics	Cat #1000127	Used in the preparation of single cell solution and preparation of Gel beads-in-emulsion (GEM)
Chromium Next GEM Single Cell 3' Kit v3.1	10X Genomics	Cat#1000268	Used in the preparation of single cell solution and preparation of Gel beads-in-emulsion (GEM)
Collagen from human placenta	Sigma Aldrich	Cat#C5533-5MG	
CYP34A forward	Eurofins	GATGGCTCTCATCCCAGACTT	Primers used to check for differentiation
CYP3A4 reverse	Eurofins	AGTCCATGTGAATGGGTTCC	Primers used to check for differentiation
DMEM/F12	Thermo Fischer Scientific	Cat#11320074	
EDTA	Sigma Aldrich	Car#E9884	
Fast Read 102 counting slides	Biosigma	Cat# BVS100	
Fetal Bovine Serum (FBS)	Capricorn	Cat#FBS-12A	
GlutaMAX	Thermo Fischer Scientific	Cat# 35050061	

HEPES	Thermo Fischer Scientific	Cat3 15630080	
L-WRN cells	ATCC	CRL-3276	This cell line is used to make the conditioned media containing Wnt 3A, R-Spondin and Noggin. The protocol for the production of the conditioned media can be found on the manufacturer's site.
MatriGel. GFR, LDEV free	Corning	Cat#354230	
MUC-2 forward	Eurofins	TGTAGGCATCGCTCTTCTCA	Primers used to check for differentiation
MUC-2 reverse	Eurofins	GACACCATCTACCTCACCCG	Primers used to check for differentiation
N-acetyl-cysteine	Sigma Aldrich	Cat# A9165	
OLMF4 forward	Eurofins	ACCTTTCCCGTGGACAGAGT	Primers used to check for differentiation
OLMF4 reverse	Eurofins	TGGACATATCCCTCACTTTGGA	Primers used to check for differentiation
Penicillin/Streptomycin	Thermo Fischer Scientific	Cat#15140122	
Recombinant human FGF basic	Peptidech	Cat#100-18B	
Recombinant human IGF-1	BioLegend	Cat#590904	
Recombinant mouse EGF	Thermo Fischer Scientific	Cat# PMG8043	
SI forward	Eurofins	AATCCTTTTGGCATCCAGATT	Primers used to check for differentiation
SI reverse	Eurofins	GCAGCCAAGAATCCAAT	Primers used to check for differentiation
TrypLE Express	Thermo Fischer Scientific	Cat#12605036	
Y-27632	Caymann Chemicals	Cat#10005583	