

Materials List for

Infection of Primary Nasal Epithelial Cells Grown at an Air-Liquid Interface to Characterize Human Coronavirus-Host Interactions

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Materials

Name	Company	Catalog Number	Comments
Alexa Fluor secondary antibodies (488, 594, 647)	Invitrogen	Various	
BSA (bovine serum albumin)	Sigma-Aldrich	A7906	
cOmplete mini EDTA-free protease inhibitor	Roche	11836170001	
Cytotoxicity detection kit	Roche	11644793001	
DMEM (Dulbecco's Modified Eagle Media)	Gibco	11965-084	
DPBS (Dulbecco's Phosphate Buffered Saline)	Gibco	14190136	
DPBS + calcium + magnesium	Gibco	14040-117	
Endohm-6G measurement chamber	World Precision Instruments	ENDOHM-6G	
Epithelial cell adhesion marker (EpCAM; CD326)	eBiosciences	14-9326-82	
Epithelial Volt/Ohm (TEER) Meter (EVOM)	World Precision Instruments	300523	
FBS (Fetal Bovine Serum)	HyClone	SH30071.03	
FV10-ASW software for imaging	Olympus	Version 4.02	
HCoV-NL63 (Human coronavirus, NL63)	BEI Resources	NR-470	
HCoV-NL63 nucleocapsid antibody	Sino Biological	40641-V07E	
Hoescht stain	Thermo Fisher	H3570	
Laemmli sample buffer (4x)	BIO-RAD	1610747	
LLC-MK2 cells	ATCC	CCL-7	To titrate HCoV-NL63
MERS-CoV (Human coronavirus, Middle East Respiratory Syndrome Coronavirus (MERS-CoV), EMC/2012)	BEI Resources	NR-44260	

MERS-CoV nucleocapsid antibody	Sino Biological	40068-MM10	
MUC5AC antibody	Sigma-Aldrich	AMAB91539	
Olympus Fluoview confocal microscope	Olympus	FV1000	
Phalloidin-iFluor 647 stain	Abcam	ab176759	
PhosStop easy pack (phosphatase inhibitors)	Roche	PHOSS-RO	
Plate reader	Perkin Elmer	HH34000000	Any plate reader or ELISA reader is sufficient; must be able to read absorbance at 492 nm
RIPA buffer (50 mM Tris pH 8; 150 mM NaCl; 0.5% deoxycholate; 0.1% SDS; 1% NP40)	Thermo Fisher	89990	Can prep in-house or purchase
RNeasy Plus Kit	Qiagen	74134	
SARS-CoV-2 (SARS-Related Coronavirus 2, Isolate USA-WA1/2020)	BEI Resources	NR-52281	
SARS-CoV-2 nucleocapsid antibody	Genetex	GTX135357	
Triton-X 100	Fisher Scientific	BP151100	
Type IV β - tubulin antibody	Abcam	ab11315	
VeroCCL81 cells	ATCC	CCL-81	To titrate MERS-CoV
VeroE6 cells	ATCC	CRL-1586	To titrate SARS-CoV-2