

Virus Propagation and Cell-Based Colorimetric Quantification

 Jia-Yi Tan¹, Jo-Ern Wong¹, Nurhafiza Zainal², Sazaly AbuBakar¹, Kim-Kee Tan¹
¹Tropical Infectious Diseases Research and Education Centre (TIDREC), Higher Institution Center of Excellence (HICoE), Universiti Malaya ²Department of Medical Microbiology, Faculty of Medicine, Universiti Malaya

Corresponding Author

Kim-Kee Tan

kimkee@um.edu.my

Citation

 Tan, J.Y., Wong, J.E., Zainal, N., AbuBakar, S., Tan, K.K. Virus Propagation and Cell-Based Colorimetric Quantification. *J. Vis. Exp.* (194), e64578, doi:10.3791/64578 (2023).

Date Published

April 7, 2023

DOI

10.3791/64578

URL

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Materials

Name	Company	Catalog Number	Comments
0.22 µm Polyethersulfone syringe filter	Sartorius	S6534-FMOSK	
1.5 mL microcentrifuge tube	Nest	615601	
10 mL sterile serological pipette	Labserve	14955156	
1x Dulbecco's phosphate-buffered saline (dPBS)	Gibco	14190-136	
2.0 mL Screw cap tube	Axygen	SCT-200-SS-C-S	
24-well plate	Corning	3526	
25 mL Sterile serological pipettes	Labserve	14955157	
3,3'Diaminobenzidine (DAB) peroxidase substrate	Thermo Scientific	34065	
37 °C incubator with 5% CO ₂	Sanyo	MCO-18AIC	
5 mL sterile serological pipette	Labserve	14955155	
50 mL centrifuge tube	Falcon	LAB352070	
75 cm ² tissue culture flask	Corning	430725U	
96-well plate	Falcon	353072	
Anti-flavivirus monoclonal antibody, 4G2 (clone D1-4G2-4-15)	MilliporeSigma	MAB10216	
Autoclaved 20x Phosphate buffered saline (PBS)	N/A	N/A	22.8 g of 8 mM Na ₂ HPO ₄ , 4.0 g of 1.5 mM KH ₂ PO ₄ , 160 g of 0.14 M NaCl, 4.0 g of 2.7 mM KCl, 1 L of MilliQ H ₂ O
Biological safety cabinet, Class II	Holten	HB2448	
CTL S6 Universal ELISpot/FluoroSpot Analyzer	ImmunoSpot, Cellular Technology Limited (CTL)	CTL-S6UNV12	Commercial software analyzer
Dulbecco's Modified Eagle Medium (DMEM)	Gibco	12800-017	
Fetal bovine serum (FBS)	Bovogen	SFBS	

Goat anti-mouse IgG secondary antibody conjugated with horseradish peroxidase (HRP)	MilliporeSigma	12-349	
Hemocytometer	Laboroptik LTD	Neubauer improved	
IGEPAL CA-630 detergent	Sigma-Aldrich	I8896	Octylphenoxy poly(ethyleneoxy)ethanolIGEPAL
Inverted microscope	ZEISS	TELAVAL 31	
Laboratory rocker	FINEPCR	CR300	
L-Glutamine	Gibco	25030-081	
Low viscosity carboxymethyl cellulose (CMC)	Sigma-Aldrich	C5678	
Multichannel micropipette (10 - 100 μ L)	Eppendorf	3125000036	
Multichannel micropipette (30 - 300 μ L)	Eppendorf	3125000052	
Paraformaldehyde	Sigma-Aldrich	P6148	
Penicillin-streptomycin	Gibco	15140-122	
Single channel pipettes (10 - 100 μ L)	Eppendorf	3123000047	
Single channel pipettes (100 - 1000 μ L)	Eppendorf	3123000063	
Single channel pipettes (20 - 200 μ L)	Eppendorf	3123000055	
Skim milk	Sunlac Low Fat	N/A	Prepare 3% Skim milk in 1x PBS for blocking stage in staining
Sodium Hypochlorite	Clorox	N/A	To disinfect any discarded infectious liquid waste from flasks/plates
Stereomicroscope	Nikon	SMZ1000	
Syringe disposable, Luer Lock, 10 mL with 21 G Needle	Terumo	SS10L21G	
Vero African green monkey kidney cells	-	ECACC 88020401	Received from collaborator. However, Vero cells obtained from other suppliers should be able to be used with some optimization.