

Materials List for

Pseudotyped Viruses As a Molecular Tool to Monitor Humoral Immune Responses Against SARS-CoV-2 Via Neutralization Assay

Tobia Fantoni¹, Michele Bissoli¹, Chiara Stefani¹, Mauro Voi¹, Alexandrina Dabija¹, Rebecca Casula¹, Domenico Luca Minafra¹, Julys da Fonseca Palmeira², Enrique Roberto Argañaraz², Martin Mayora-Neto³, Nigel J. Temperton³, Donato Zipeto¹, Alessandra Ruggiero¹

¹Department of Neuroscience, Biomedicine and Movement, University of Verona ²Laboratory of Molecular Neurovirology, Faculty of Health Science, University of Brasília ³Viral Pseudotype Unit, Medway School of Pharmacy, Universities of Kent and Greenwich at Medway

*These authors contributed equally

Corresponding Author

Alessandra Ruggiero

Alessandra.Ruggiero@univr.it

Citation

Fantoni, T., Bissoli, M., Stefani, C., Voi, M., Dabija, A., Casula, R., Minafra, D.L., da Fonseca Palmeira, J., Argañaraz, E.R., Mayora-Neto, M., Temperton, N.J., Zipeto, D., Ruggiero, A. Pseudotyped Viruses As a Molecular Tool to Monitor Humoral Immune Responses Against SARS-CoV-2 Via Neutralization Assay. *J. Vis. Exp.* (201), e65658, doi:10.3791/65658 (2023).

Date Published

November 21, 2023

DOI

10.3791/65658

URL

jove.com/video/65658

Materials

Name	Company	Catalog Number	Comments
0.45 µm filter	SARSTEDT	83 1826	
6-well plate	SARSTEDT	83 3920	
96-well plate	SARSTEDT	8,33,924	
Amicon Ultra-15 Centrifugal Filter Units	Merck	10403892	
Black Opaque 96-well Microplate	Perkin Elmer	60005270	
Dulbecco's Modified Eagle Medium	SIGMA-ALDRICH	D6546 - 500ML	
Dulbecco's phosphate buffered saline (PBS 1x)	AUROGENE	AU-L0615-500	
Foetal Bovine Serum	AUROGENE	AU-S1810-500	
Graphpad Prism version 7	graphpad dotmatics	NA	In the manuscript, we replace the commercial name with 'data analysis program'
HEK293T cells	ATCC	CRL-3216	
HEK293T/ACE2 cells	ATCC	CRL-3216	HEK293T has been transduced to overexpress ACE2 with a lentiviral vector.
L-glutamine	AUROGENE	AU-X0550-100	
Luminometer - Victor3	Perkin Elmer	HH35000500	In the manuscript, we replace the commercial name with 'luminometer'
Opti-MEM	Thermo Fisher Scientific	11058021	In the manuscript, we replace the commercial name with 'reduced serum medium'

p8.91 packaging plasmid	Di Genova et al., 2021		A kind gift from Prof. Nigel Temperton (ref 16.)
pCSFLW reporter plasmid	Di Genova et al., 2021		A kind gift from Prof. Nigel Temperton (ref 16.)
Penicillin/streptomycin	AUROGENE	AU-L0022-100	
Polyethylenimine, branched (PEI) (25 kDa)	SIGMA-ALDRICH	408727	
RRL.sin.cPPT.SFFV/Ace2.IRES-puro.WPRE (MT126)	Addgene	145839	This plasmid was used to generate HEK293Tcells/ACE2
SARS-CoV-2 Spike expressing plasmid	Addgene	pGBW-m4137382	
steadylite plus Reporter Gene Assay System	Perkin Elmer	6066759	In the manuscript, we replaced the commercial name with 'luciferase reading reagent'
Trypsin EDTA 1x	AUROGENE	AU-L0949-100	