

TECH DATA SHEET

REPORTER VIRUS PARTICLES

DESCRIPTION			
Product	RVP-725G, SARS-CoV-2 Reporter Virus Particles (RVPs)		
Lot	CG-181A		
Strain	N679S (DC newborn)		
Reporter	GFP		
Size	1.0 mL/vial		
Packaging	20% FBS/DMEM		
Viral Titer	3.5 x 10 ⁶ TU/ml		
Recommended Input	*5uL per well (96-well plate) using the 293T-ACE2 stable cell line		
Mycoplasma Test	Negative		
Expiration Date	April 2025		

SAF	ETY	& HAI	NDL	NG

Shipping Shipped on dry ice

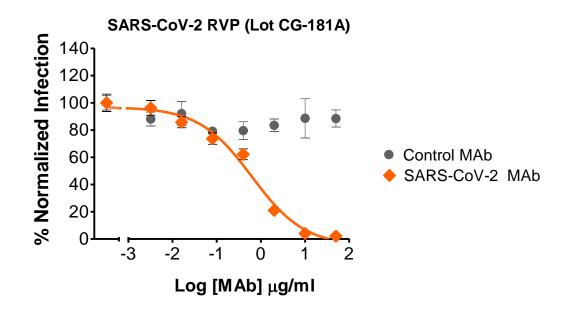
Stability and Storage Store at \leq -80°C

SARS-CoV-2 RVPs are used to test the ability of serum, antibodies, and drugs to neutralize the infectivity of SARS-CoV-2 spike protein. RVPs display antigenically correct spike protein pseudotyped on replication-incompetent virus particles that contain a heterologous lentiviral (HIV) core. RVPs are capable of a single round of infection and carry a genome that expresses either a GFP or luciferase optical reporter gene upon infection. RVPs are produced in HEK-293T cells using three separate plasmids, encoding the spike protein, a lentiviral gag polyprotein, and a reporter gene. RVPs are created using a second-generation lentiviral system with components that are highly unlikely to recombine to produce a fully infectious virus (requiring 3 separate recombination events to do so). However, lentiviruses are capable of genomic integration and RVPs are derived from biological materials so should be handled with caution within a BSL2 or enhanced BSL2 laboratory environment. RVPs are not to be used in humans or in animals raised for food.

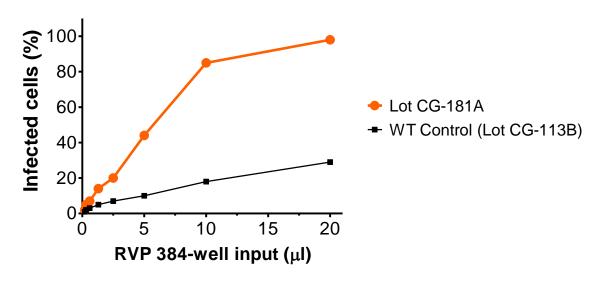
Thaw tubes in a 37°C water bath for 3 minutes and place on ice until ready to use. RVPs will appear as a translucent, pink solution. Gently mix prior to use and pulse tube for 3 seconds at high speed in a tabletop microfuge to recover all volume from the tube. Excessive vortexing of RVPs should be avoided. Re-freezing of RVPs is not recommended.

^{*}Note: Input is lower than other lots

NEUTRALIZATION & INFECTIVITY DATA



SARS-CoV-2 RVPs (Lot CG-181A)



Infectivity determined in HEK-293T cells stably over-expressing ACE2 (Integral Cat# C-HA102).

Neutralization utilized 5 μ l of SARS-CoV-2 RVPs in a 384-well plate. GFP positive cells were detected with an Intellicyt iQue flow cytometer using the BL-1 channel (Ex. 488 nm, Em. 530).