



TECH DATA SHEET

REPORTER VIRUS PARTICLES

DESCRIPTION

Product	RVP-1425L, SARS-CoV-2 Reporter Virus Particles (RVPs)
Lot	FL-1123B
Strain	H.sapiens-tc/UGA/2007/Butalya-811250
Reporter	<i>Renilla</i> Luciferase
Size	1.0 mL/vial
Packaging	20% FBS/DMEM
Recommended Input	1 μ L per well (96-well plate) for a S:B > 200*
Mycoplasma Test	Negative
Expiration Date	June 2028

SAFETY & HANDLING

Shipping	Shipped on dry ice
Stability and Storage	Store at $\leq -80^{\circ}\text{C}$ upon receipt

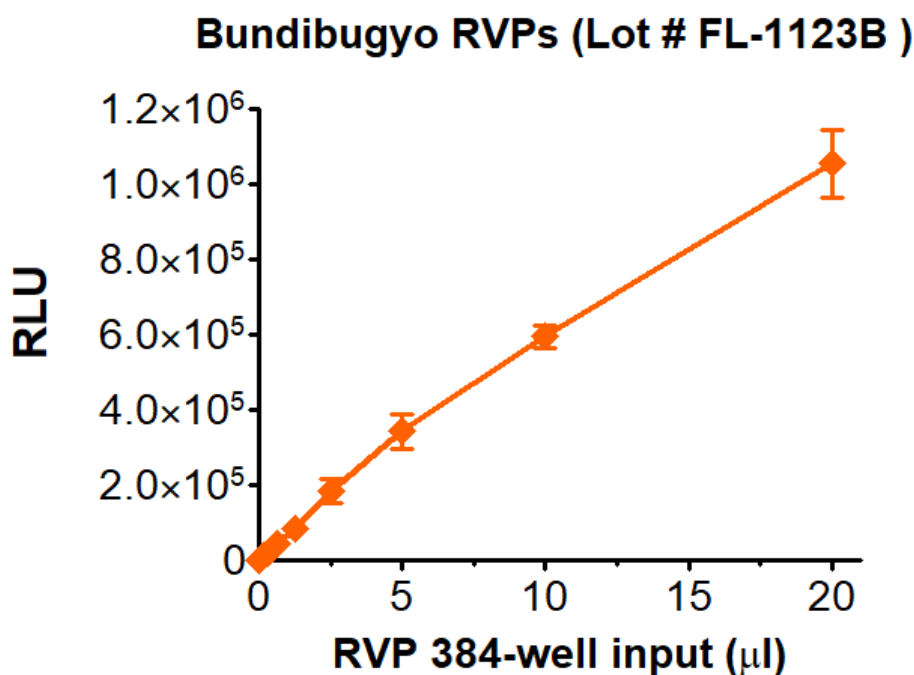
* Determined in the HEK-293T cell line. Signal-to-background values can vary depending on instrument make, model, and/or calibration.

Bundibugyo (BDBV) RVPs are used to test the ability of serum, antibodies, and drugs to neutralize BDBV virus infectivity. RVPs display antigenically correct glycoprotein pseudotyped on replication-incompetent virus particles that contain a heterologous VSV core. RVPs are capable of a single round of infection and carry a genome that expresses a GFP expression gene upon infection. RVPs are produced in HEK-293T cells using a plasmid encoding the glycoprotein.

BDBV RVPs are created using a ΔG -VSV pseudotyping system and 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 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. Vortexing of RVPs should be avoided. Re-freezing of RVPs is not recommended.

INFECTIVITY DATA



Infectivity determined in HEK-293T cells. Infectivity data represents the average of three independent vials, each tested in quadruplicate. *Renilla* luciferase activity measured using the Promega *Renilla*-Glo luciferase assay system (Promega #E2710). Sample luminescence was read using a Perkin-Elmer Envision plate reader.

SIGNAL TO BACKGROUND	
RVP 384-well Input (μl)	Signal: Background
20	34,515
10	19,526
5	11,192
2.5	6,001
1.25	2,729
0.63	1,414
0.31	702

Signal to background is calculated using mock infected cells as the negative control value.