



TECH DATA SHEET

REPORTER VIRUS PARTICLES

DESCRIPTION

Product	RVP-2350G, Hantaan Reporter Virus Particles (RVPs)
Lot	HTG-1102B
Strain	76-118
Reporter	GFP
Size	1.0 mL/vial
Packaging	20% FBS/DMEM
Viral Titer	2.68×10^6 TU/ml
Recommended Input	5 μ L per well (96-well plate) for $\geq 20\%$ infectivity in a flow assay*
Mycoplasma Test	Negative
Expiration Date	May 2028

SAFETY & HANDLING

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

* Determined in the Vero cell line

Hantaan RVPs are used to test the ability of serum, antibodies, and drugs to neutralize Hantaan 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.

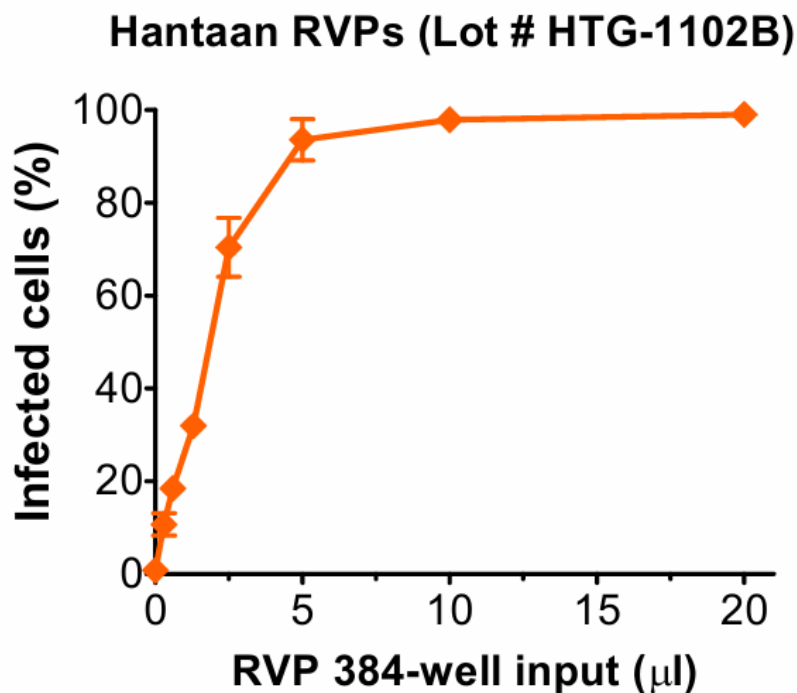
Hantaan RVPs are created using a Δ G-VSV pseudotyping system and are derived from biological materials so should be handled with caution within a BSL2 or enhanced BSL2 laboratory environment. RVPs are not to be used in humans or in animals raised for food.

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.

† Titer is calculated using the estimated number of cells at the end of the experiment, using the following equation:

$$\left[\left(\frac{\% \text{ GFP positive cells}}{100} \right) \times \left(\frac{9,000 \text{ cells}}{1 \text{ well}} \right) \times \left(\frac{1 \text{ well}}{\text{RVP input } (\mu\text{L})} \right) \right] \times \frac{1000 \mu\text{L}}{1 \text{ mL}} = X \frac{\text{Transforming Units (TU)}}{\text{mL}}$$

INFECTIVITY DATA



Infectivity determined in Vero cells. Infectivity data represents the average of two independent vials, each tested in quadruplicate. GFP positive cells were detected with an Intellicyt iQue flow cytometer using the BL-1 channel (Ex. 488 nm, Em. 530).