TECH DATA SHEET

REPORTER VIRUS PARTICLES

DESCRIPTION

Product	RVP-1002L, VSV Reporter Virus Particles (RVPs)
Lot	VL-817A
Strain	Indiana
Reporter	*Renilla* Luciferase
Size	1.0 mL/vial
Packaging	20% FBS/DMEM
Recommended Input	1µL per well (96-well plate) for a S:B > 200*****
Mycoplasma Test	Negative
Expiration Date	February 2029

SAFETY & HANDLING

Shipping	Shipped on dry ice
Stability and Storage	Store at ≤ -80°C

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

VSV (vesicular stomatitis virus) RVPs are designed as a control for Integral Molecular's RVP offerings to test for non-specific factors that affect virus infectivity. RVPs display an antigenically correct VSV envelope glycoprotein pseudotyped on replication-incompetent virus particles that contain a heterologous gammaretroviral (MLV) 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 envelope protein, a gammaretroviral gag polyprotein, and a reporter gene.

VSV RVPs are created using a second-generation gammaretroviral system with components that are highly unlikely to recombine to produce a fully infectious virus (requiring 3 separate recombination events to do so). However, gammaretroviruses 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 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.

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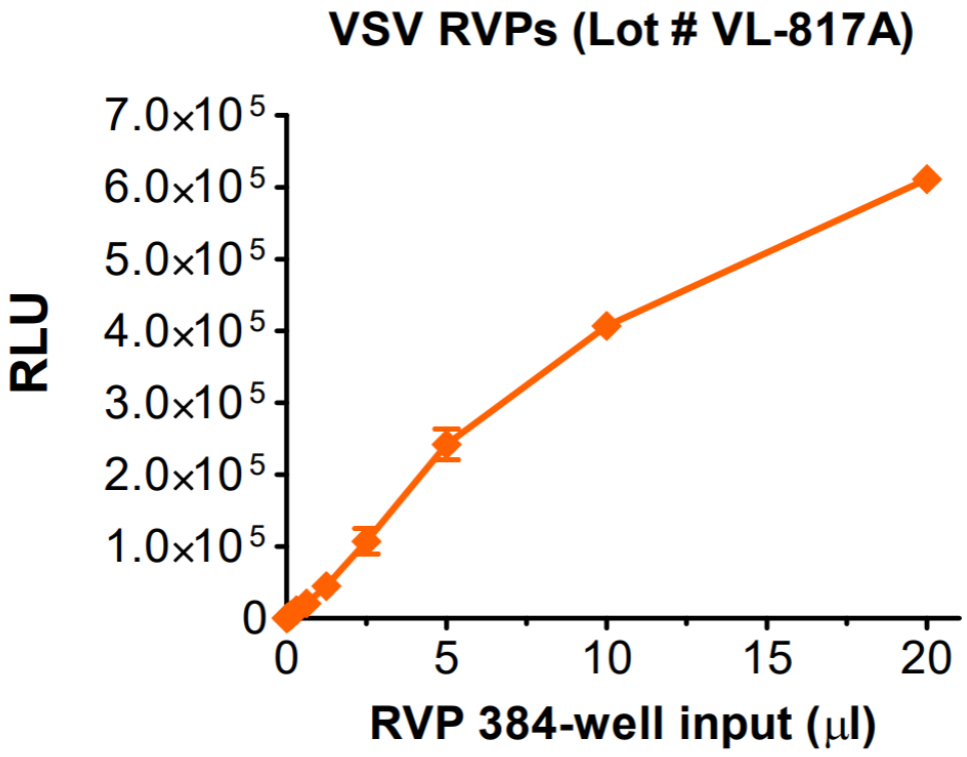
INFECTIVITY DATA



Infectivity is determined in HEK-293T cells. Data are based on two independent tubes, 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	27497
10	18309
5	10917
2.5	4845
1.25	2019
0.63	931
0.31	518

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