



# TECH DATA SHEET

## REPORTER VIRUS PARTICLES

### DESCRIPTION

<b>Product</b>	RVP-1002G, VSV Reporter Virus Particles (RVPs)
<b>Lot</b>	VG-451A
<b>Strain</b>	Indiana
<b>Reporter</b>	GFP
<b>Size</b>	1.0 mL/vial
<b>Packaging</b>	20% FBS/DMEM
<b>Viral Titer</b>	8.32 x 10 <sup>6</sup> TU/mL
<b>Recommended Input</b>	2.5 µL per well (96-well plate) for ~20% infectivity in a flow assay*
<b>Mycoplasma Test</b>	Negative
<b>Expiration Date</b>	December 2026

### SAFETY & HANDLING

<b>Shipping</b>	Shipped on dry ice
<b>Stability and Storage</b>	Store at ≤ -80°C

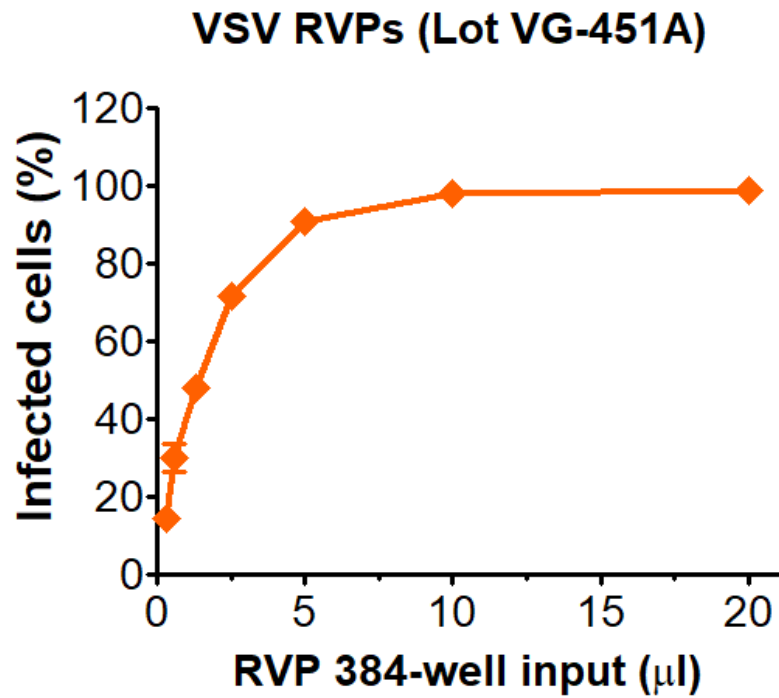
\* Determined in the HEK-293T cell line

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. These RVPs display the VSV envelope glycoprotein (VSV-G) 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.

VSV RVPs are produced in HEK-293T cells using three separate plasmids, encoding VSV-G, a gammaretroviral 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. The VSV-G protein confers the RVPs with a high level of single cycle infectivity due to its broad tropism. 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. Excessive vortexing of RVPs should be avoided. Re-freezing of RVPs is not recommended.

## INFECTIVITY DATA



Infectivity is determined in HEK-293T cells. Data are based on three independent tubes, 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).