# TECH DATA SHEET

## REPORTER VIRUS PARTICLES

## DESCRIPTION

| | |
|---|---|
| **Product** | RVP-1002G, VSV Reporter Virus Particles (RVPs) |
| **Lot** | VG-133B |
| **Strain** | Indiana |
| **Reporter** | GFP |
| **Size** | 1.0 ml/vial |
| **Packaging** | 20% FBS/DMEM |
| **Viral Titer** | 6.25 x $10^6$ TU/ml |
| **Recommended Input** | 2.5 uL per well (96-well plate) for ~20% infectivity in a flow assay***** |
| **Mycoplasma Test** | Negative |
| **Expiration Date** | January 2025 |

## SAFETY & HANDLING

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

***** Determined in the 293T-ACE2 stable 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.

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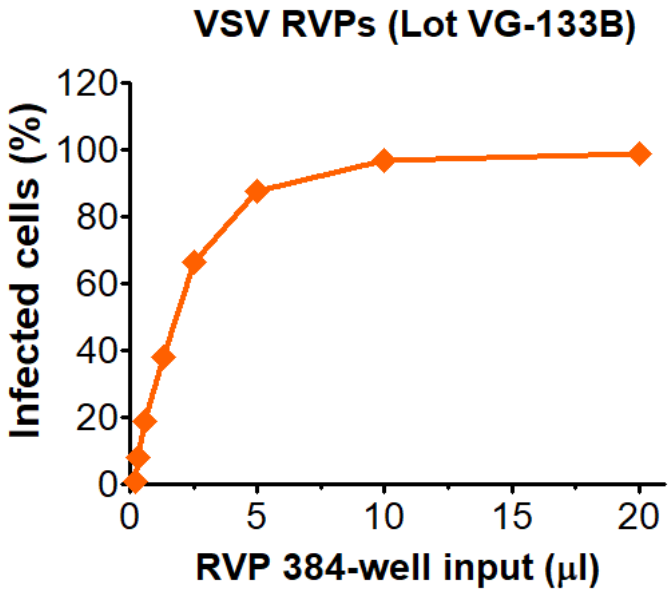
## INFECTIVITY DATA




Infectivity determined in HEK-293T cells stably over-expressing ACE2 (Integral Cat# C-HA102). GFP positive cells were detected with an Intellicyt iQue flow cytometer using the BL-1 channel (Ex. 488 nm, Em. 530).