CERTIFICATE OF ANALYSIS

REPORTER VIRUS PARTICLES

DESCRIPTION

Product	RVP-2400L, Measles (MeV) Reporter Virus Particles (RVPs)
Lot	PML-1239B
Strain	Edmonston
Reporter	GFP
Size	1.0 mL/vial
Packaging	20% FBS/DMEM
Recommended Starting Input	1.25 µL per well (96-well plate) for a S:B ≥ 200*
Mycoplasma Test	Negative
Manufacture Date	October 2026
Expiration Date	October 2028

SAFETY & HANDLING

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

MeV RVPs are used to test the ability of serum, antibodies, and drugs to neutralize Measles infectivity. RVPs display antigenically correct glycoproteins 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 either a GFP or luciferase optical reporter gene upon infection. RVPs are produced in HEK-293T cells using plasmids encoding the glycoproteins.

MeV RVPs are derived from recombinant vesicular stomatitis virus (VSV) from which the VSV glycoprotein gene has been deleted and replaced with a reporter gene (VSVΔG). RVPs are derived from biological materials and 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, pink 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.

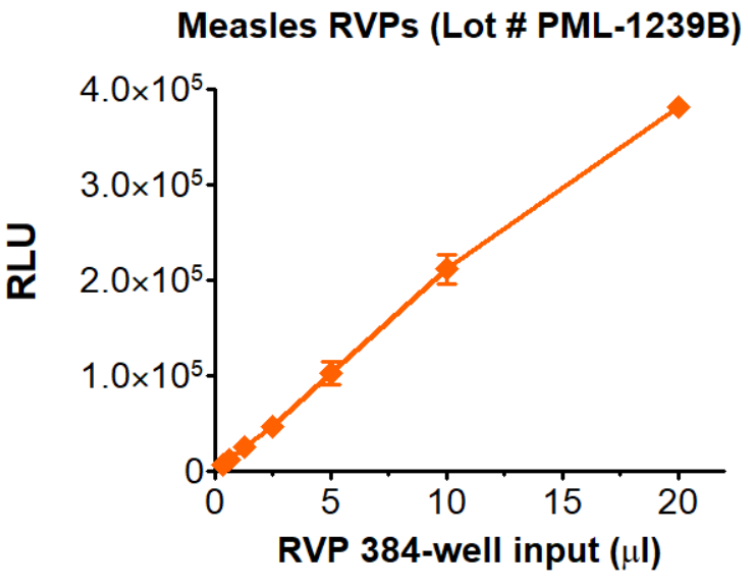
* Determined in the Huh-7 cell line. Input should be optimized based on specific assay conditions and experimental needs. Signal-to-background values may vary depending on instrument make, model, and/or calibration.

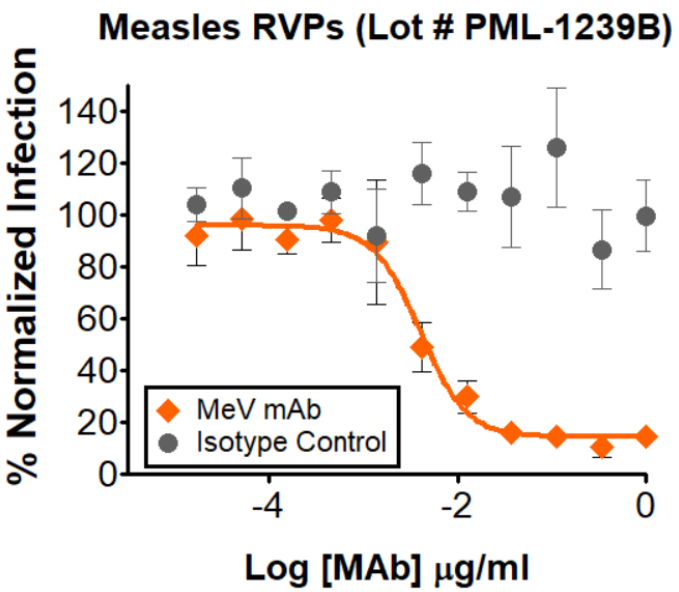
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INFECTIVITY & NEUTRALIZATION DATA





Infectivity and neutralization determined in Huh-7 cells. Infectivity data represents the average of three independent vials, each tested in technical quadruplicate.

Neutralization utilized 5 µL of MeV RVPs in a 384-well plate.

Renilla luciferase activity measured using the Promega *Renilla* luciferase assay system (Promega #E2710). Sample luminescence was read using a PerkinElmer EnVision plate reader.

SIGNAL TO BACKGROUND

RVP 384-well Input (µL)	Signal: Background
20	23,464
10	13,040
5	6,283
2.5	2,833
1.25	1,557
0.63	771
0.31	392

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

Approved By: _____

Jennifer Kilgore | Senior Project Manager/Quality Assurance, Virology