CERTIFICATE OF ANALYSIS

REPORTER VIRUS PARTICLES

DESCRIPTION

Product	RVP-1426L Bundibugyo ebolavirus (BDBV) Reporter Virus Particles (RVPs)
Lot	FL-1203B
Strain	Democratic_Republic_of_the_Congo/PP_006XHL9.2/2026-05-07
Reporter	*Renilla* Luciferase
Size	1.0 mL/vial
Packaging	20% FBS/DMEM
Recommended Starting Input	2.5µL per well (96-well plate) for a S:B ≥ 200*
Mycoplasma Test	Negative
Manufacture Date	August 2026
Expiration Date	August 2028

SAFETY & HANDLING

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

BDBV RVPs are used to test the ability of serum, antibodies, and drugs to neutralize BDBV 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 *Renilla* luciferase reporter gene upon infection. RVPs are produced in HEK-293T cells using plasmids encoding the glycoproteins.

BDBV 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 HEK-293T 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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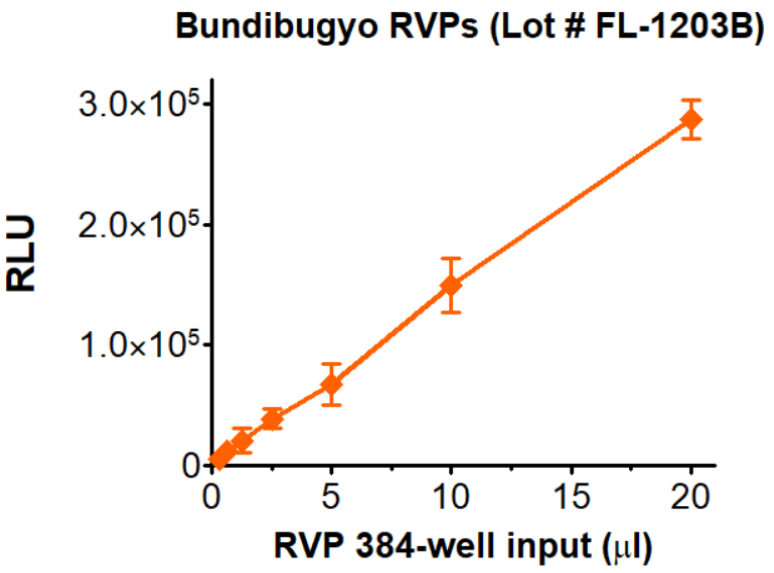
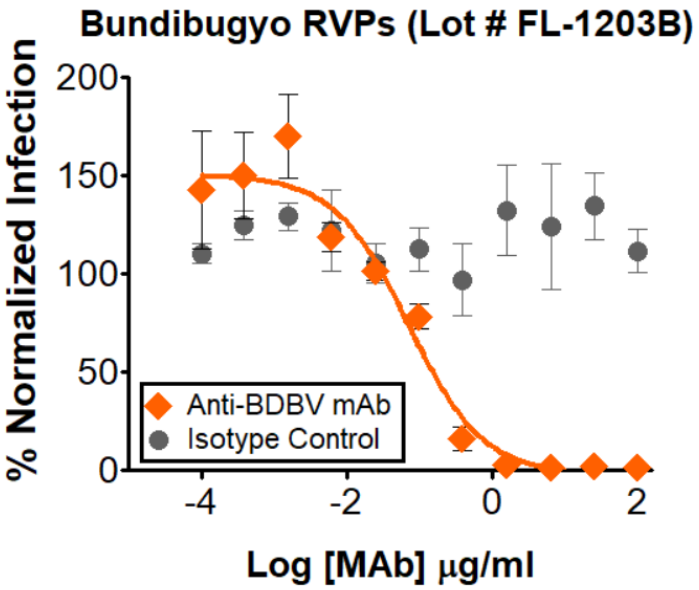
INFECTIVITY & NEUTRALIZATION DATA





Infectivity determined in HEK-293T cells (recommended product: ATCC Catalog # CRL-3216). Infectivity values represent the average of three independent vials, with each vial tested in technical quadruplicate.

Neutralization utilized 5µl of BDBV 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	9,305
10	4,845
5	2,175
2.5	1,260
1.25	677
0.63	398
0.31	186

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

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