CERTIFICATE OF ANALYSIS

REPORTER VIRUS PARTICLES

DESCRIPTION

Product	RVP-1402G, Zaire ebolavirus (EBOV) Reporter Virus Particles (RVPs)
Lot	FG-1177B
Strain	Mayinga/76
Reporter	GFP
Size	1.0 mL/vial
Packaging	20% FBS/DMEM
Viral Titer	7.94 x 10^6 TU/mL†
Recommended Starting Input	1 µL per well (96-well plate) for ≥ 20% infectivity in a flow assay*
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

EBOV RVPs are used to test the ability of serum, antibodies, and drugs to neutralize EBOV 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.

EBOV 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.

† Titer is calculated using the estimated number of cells at the end of the experiment, using the following equation:

$$\left[\left(\frac{\%\ GFP\ positive\ cells}{100}\right) \times \left(\frac{9{,}000\ cells}{1\ well}\right) \times \left(\frac{1\ well}{RVP\ input\ (\mu L)}\right)\right] \times \frac{1000\ \mu L}{1\ mL} = X\ \frac{Transforming\ Units\ (TU)}{mL}$$

* Determined using the Vero cell line. Input should be optimized based on specific assay conditions and experimental needs.

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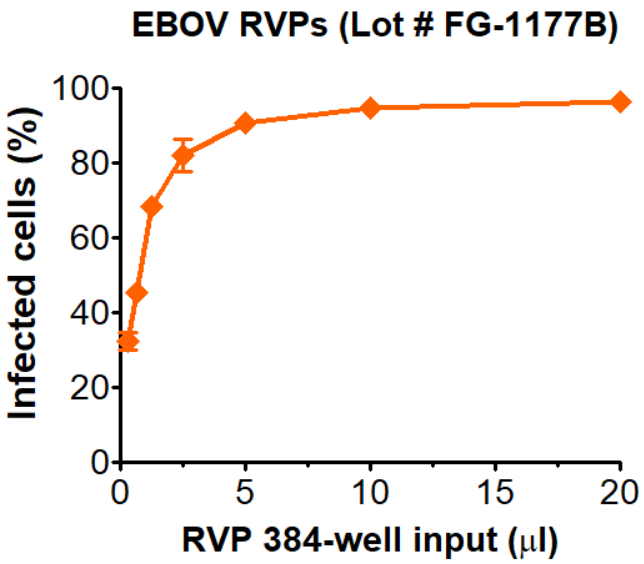
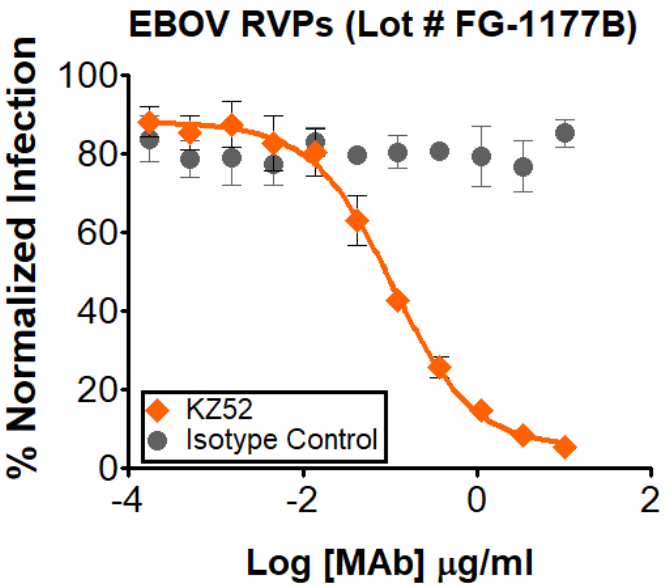
INFECTIVITY & NEUTRALIZATION DATA





Infectivity and neutralization determined in Vero cells. Infectivity data represent the average of three independent vials, with each vial tested in technical quadruplicate.

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

GFP positive cells were detected with an Intellicyt iQue flow cytometer using the BL-1 channel (Ex. 488 nm, Em. 530).

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