TECH DATA SHEET

REPORTER VIRUS PARTICLES

DESCRIPTION	
Product	RVP-1603L, Yellow Fever (YFV) Reporter Virus Particles (RVPs)
Lot	YL-542B
Strain	17D
Reporter	*Renilla* Luciferase
Size	1.0 mL/vial
Packaging	20% FBS/DMEM
Recommended Input	1.56µL per well (96-well plate) for a S:B ≥ 200*****
Mycoplasma Test	Negative
Expiration Date	July 2028

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

***** Determined in the BHK DC-SIGN stable cell line. Signal-to-background values can vary depending on instrument make, model, and/or calibration.

YFV RVPs are used to test the ability of serum, antibodies, and drugs to neutralize infectivity. YFV RVPs are structurally intact Yellow Feever virus-like particles, capable of a single round of infection and carry a genome that expresses a luciferase optical reporter gene upon infection. RVPs are derived from a baby hamster kidney cell line (BHK-21) and are produced using YFV CprME structural genes and a Flavivirus reporter replicon.

RVPs are designed to have structural and antigenic equivalence to live viruses and are highly unlikely to recombine to produce a fully infectious virus. However, RVPs are derived from biological materials and should be handled with caution within a 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 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.

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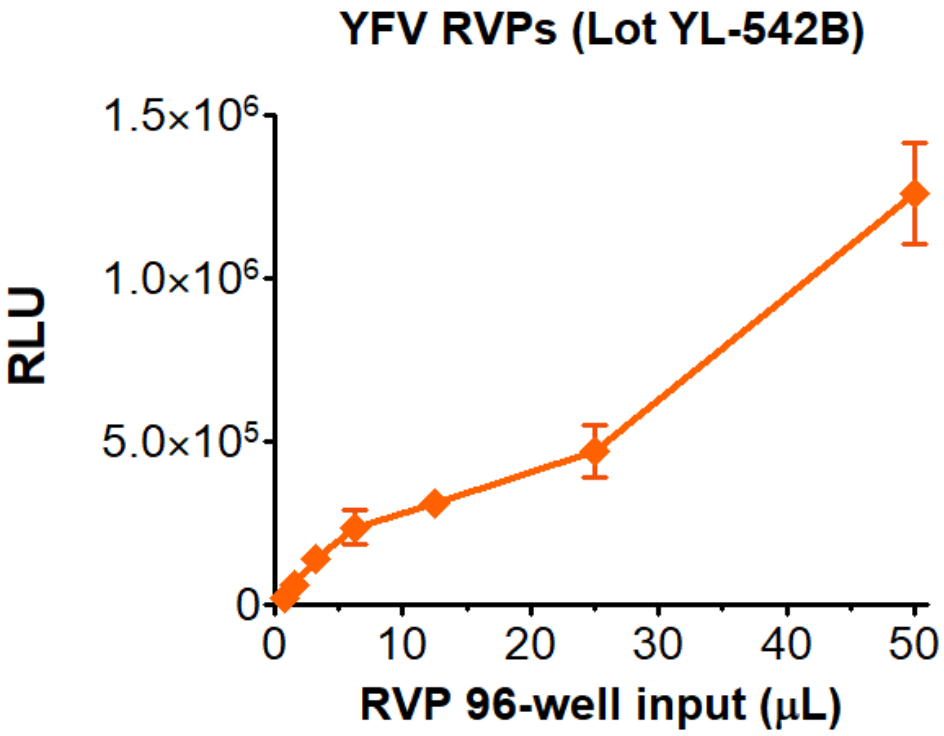
Version 2, 05/08/2025

INFECTIVITY DATA



Infectivity determined in BHK DC-SIGN cells (Cat# C-BD101). Infectivity data represents the average of three independent vials, each tested in duplicate.

Renilla luciferase activity measured using the Promega *Renilla* luciferase assay system (Promega #E2810). Sample luminescence was read using a Perkin-Elmer Envision plate reader.

SIGNAL TO BACKGROUND	
RVP 96-well Input (µl)	**Signal:Background**
50	5765
25	2153
12.5	1416
6.25	1057
3.13	635
1.56	277
0.78	97

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