TECH DATA SHEET

REPORTER VIRUS PARTICLES

DESCRIPTION	
Product	RVP-1650L, West Nile Virus (WNV) Reporter Virus Particles (RVPs)
Lot	WNL-601A
Strain	NY99
Reporter	*Renilla* Luciferase
Size	1.0 mL/vial
Packaging	20% FBS/DMEM
Recommended Input	3.125µL per well (96-well plate) for a S:B ≥ 200*****
Mycoplasma Test	Negative
Expiration Date	November 2025

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

WNV RVPs are used to test the ability of serum, antibodies, and drugs to neutralize infectivity. WNV RVPs are structurally intact West Nile 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 produced in HEK-293T using WNV 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 vial(s) in a 37°C water bath for 2-3 minutes and place on ice until ready to use. Gently mix prior to use and pulse vial for 3 seconds at high speed in a tabletop microfuge to recover all volume. Vortexing of RVPs should be avoided. Re-freezing of RVPs is not recommended.

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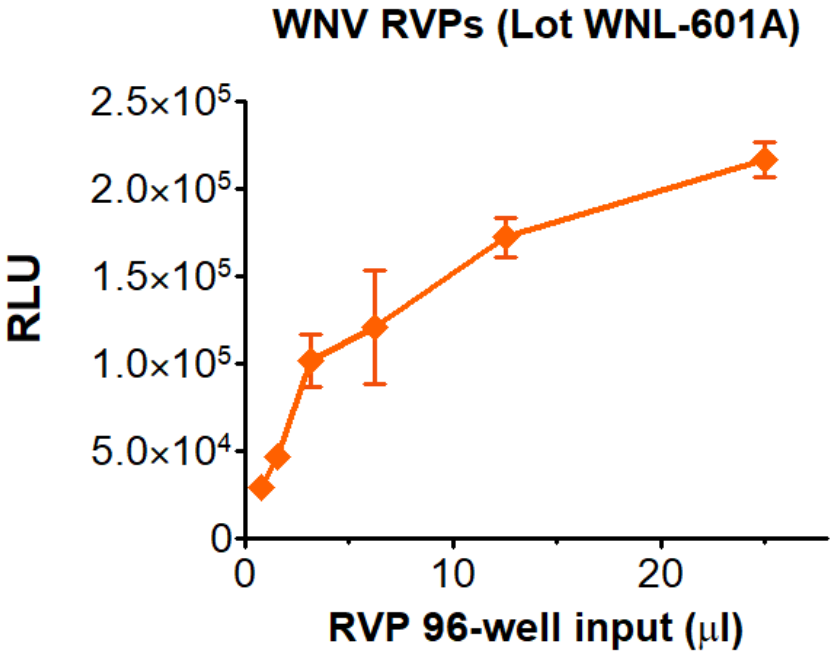
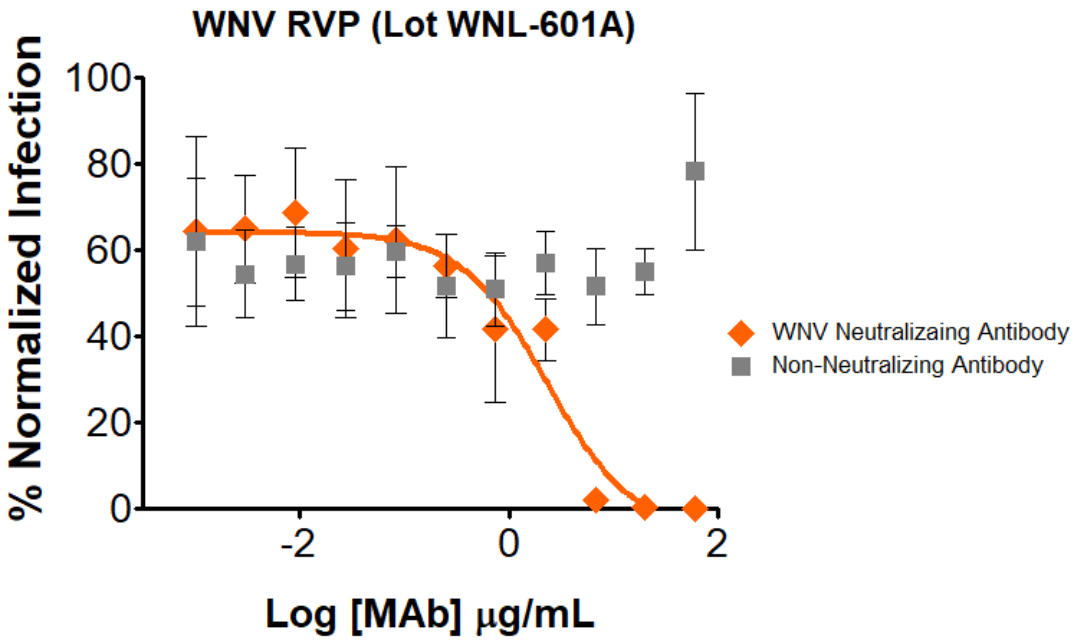
INFECTIVITY AND NEUTRALIZATION DATA





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

Renilla luciferase activity is 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 384-well Input (µL)	**Signal: Background**
25	611
12.5	497
6.25	345
3.125	293
1.5625	136
0.78125	84

Signal to background is calculated using mock infected cells as the negative control value. Devices used to read luminescence will vary in relative light unit values based on their individual detectors and software, but the signal to background will be comparable across devices.