



Pseudovirus Ebola Sudan

Luciferase reporter

Lot #240202



Certificate of Analysis

1. Summary

This certificate is a functional validation for the lot #240202 of an GP pseudotyped pseudovirus, Ebola Sudan. The titer is 2.0×10^5 RLU/ μ L. A volume of 1 mL of lot #240716 can be used to perform approximately 1,000 reactions or 10 x 96-well plates (according to the IVANO Bioscience protocol available upon request).

2. Transduction efficiency assay

Target cells	HEK293 T cells (TIM-1 ⁺)
Volume of pseudovirus	0, 0.5, 1, 2, 4, 6, 8 or 10 μ L/well
Detection signal	Luminescence (firefly luciferase)
Detection method	Microplate reader Biotek Synergy H1 (Gain: Autoscale)

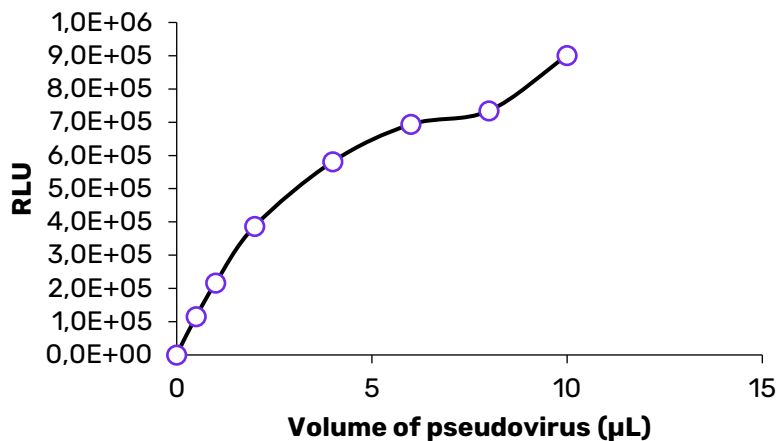


Figure 1: Transduction efficiency curve.

A volume range of pseudovirus was mixed in a final volume of 50 μ L of culture complete medium, in a 96-well plate. Then, an additional 50 μ L containing 20 000 HEK293 T cells (TIM-1⁺) was seeded in each well. Luc expression analysis was performed 48 hours post-infection by a luminescence microplate reader.

Conclusions:

The Ebola Sudan pseudovirus (#240202) can transduce the target cells. The titer is: 2.0×10^5 RLU/ μ L. Using 1 μ L/reaction of pseudovirus in a 96-well plate will yield a 1,000-fold increase in RLU compared to the background. Therefore, 1 mL of lot #240202 can be used to perform approximately 1,000 reactions or 10 x 96-well plates (according to the IVANO Bioscience protocol available upon request).

3. Additional information

Instruction of Uses	We recommend determining the titer in your lab's conditions before performing any experiments. Handle under biosafety level-2.
Pseudovirus	Replication incompetent. 3 rd generation lentiviral vector, incompetent replication and non-toxic.
Pseudotyping	Ebola virus glycoprotein from the 2014 outbreak in west Africa (GENBANK : KP096420.1)
Glycosylation origin	Human
Reporter protein	Firefly luciferase
Storage	- 80 °C, avoid freeze/thaw cycles
For more information	mathias.mangion@ivanobioscience.com Message object should contain : "Ebola Sudan – 240202"