

CERTIFICATE OF ANALYSIS

Product: PIV1-GFP virus

Product Number: P121

Parental Strain: Washington/20993/1964

Lot Number: 1527

Cells for Propagation: LLC-MK2

Virus Passage Number: 2

Quantity: 2 x 1.2 ml ( $\pm 10\%$ )

Titer: 7.0 log<sub>10</sub> TCID<sub>50</sub>/ml

Preparation: Cleared infected cell supernatant

Suspension Medium: DMEM, sucrose, L-glutamic acid

Manufacture Date: 06/09/2015

Biosafety Level: 2

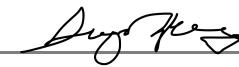
Sterility: Bacteria, yeast, fungi, and Mycoplasma were not detected by our assay methods.

Shipping and Storage: This product is shipped frozen on dry ice. Store at  $-80^{\circ}\text{C}$  upon receipt. Avoid multiple freeze-thaw cycles as loss of viral titer may occur.

Recommendation: Before use, rapidly thaw frozen vial in a water bath set at  $37^{\circ}\text{C}$  and then store on ice. Use pre-cooled medium/buffer for virus dilution and store on ice before inoculating into cell culture. For future use, aliquot into small amounts and freeze rapidly in a dry ice/alcohol bath and store at  $-80^{\circ}\text{C}$ .

BIOHAZARD: This virus preparation contains LIVE VIRUS and should be handled in accordance with biosafety guidelines defined in NIH-CDC HHS Publication No. (CDC) 93-8395.

Certified by:



06/19/2015

Signature

Date

Technical Director

Title

THIS PRODUCT IS FOR RESEARCH USE ONLY, NOT FOR HUMAN THERAPEUTIC OR DIAGNOSTIC APPLICATIONS.