

## CERTIFICATE OF ANALYSIS

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Product: PIV5-GFP3

Product Number: P523

Parental Strain: W3A strain

Lot Number: 1551

Cells for Propagation: LLC-MK2 (ATCC CCL-7)

Virus Passage Number: 2

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

Titer: 9.0 log<sub>10</sub> TCID<sub>50</sub>/ml

Preparation: Cleared infected cell supernatant

Suspension Medium: DMEM, sucrose, L-glutamic acid

Manufacture Date: 03/17/2016

Biosafety Level: 2

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

**Shipping and Storage:** This product is shipped frozen with 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 keep on ice. Use pre-cooled medium/buffer for virus dilution and keep 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:



03/30/2016

Signature

Date

Technical Director

Title

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